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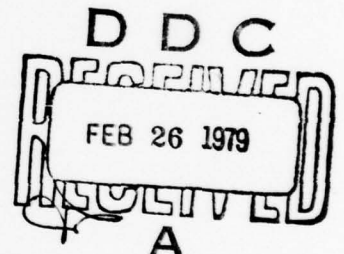
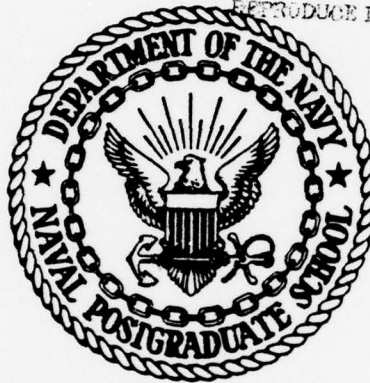


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QUESTIONNAIRE RESULTS ON THE PROSPECTS FOR  
SOVIET DEVELOPMENT OF PARAPSYCHOLOGY  
FOR MILITARY OR POLITICAL PURPOSES

BY

JAMES DAVID BRAY

DECEMBER 1978

THESIS ADVISOR:

PETER C.C. WANG

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This thesis examines the judgements of experts as to the potential threat the development of parapsychology would play in the national security of the United States. In order to accomplish this, a questionnaire distributed to authors of articles on parapsychology was analyzed using the Statistical Package for the Social Sciences (SPSS). In addition, a section is included on the history of Soviet studies in this field. Recommendations are made for areas requiring further investigation.		

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SOVIET DEVELOPMENT OF PARAPSYCHOLOGY  
FOR MILITARY OR POLITICAL PURPOSES

BY

JAMES DAVID BRAY  
LIEUTENANT, UNITED STATES NAVY  
B.S., OHIO STATE UNIVERSITY, 1973

SUBMITTED IN PARTIAL FULFILLMENT OF THE  
REQUIREMENTS FOR THE DEGREE OF

MASTER OF ARTS IN NATIONAL SECURITY AFFAIRS

FROM THE

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## ABSTRACT

THIS THESIS EXAMINES THE JUDGEMENTS OF EXPERTS AS TO THE POTENTIAL THREAT THE DEVELOPMENT OF PARAPSYCHOLOGY WOULD PLAY IN THE NATIONAL SECURITY OF THE UNITED STATES. IN ORDER TO ACCOMPLISH THIS, A QUESTIONNAIRE DISTRIBUTED TO AUTHORS OF ARTICLES ON PARAPSYCHOLOGY WAS ANALYZED USING THE STATISTICAL PACKAGE FOR THE SOCIAL SCIENCES (SPSS). IN ADDITION, A SECTION IS INCLUDED ON THE HISTORY OF SOVIET STUDIES IN THIS FIELD. RECOMMENDATIONS ARE MADE FOR AREAS REQUIRING FURTHER INVESTIGATION.

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ALTHOUGH RESPONSIBILITY FOR THE CONTENTS OF THIS WORK IS ENTIRELY MINE, I OWE MUCH TO THE ADVICE AND SUPPORT OF FELLOW STUDENTS, FRIENDS AND KIND RESPONDENTS TO MY RATHER LENGTHY QUESTIONNAIRE. AMONG THOSE TO WHOM I AM ESPECIALLY GRATEFUL ARE ROGER M. MARTIN, THE LIBRARIAN WHO SUPPLIED ENTHUSIASM AS WELL AS COUNTLESS HOURS OF RESEARCH SUPPORT; COMMANDER THOMAS H. BARR, THE CURRICULAR OFFICER WHO HAD THE OPEN-MINDEDNESS TO ALLOW SUCH AN UNDERTAKING; MR. DALE GRAFF AN ADVISOR NEAR MY HOME TOWN; PROFESSOR PETER C. C. WANG, MY THESIS ADVISOR, CHIEF CRITIC AND MENTOR; AND, NOT LEAST, MY WIFE, BOBBIE, WHOSE PATIENCE, ENCOURAGEMENT AND GOOD HUMOR WERE INSTRUMENTAL IN HELPING ME THROUGH THE ROUGH SPOTS. NO LESS IMPORTANT WAS THE COOPERATION AND SUPPORT RECEIVED FROM THE PROFESSIONALS AT THE NAVAL OCEAN SYSTEMS CENTER, SAN DIEGO AND THE NAVAL POSTGRADUATE SCHOOL.

QUOTATIONS AND REPRODUCTION OF COMPUTER OUTPUTS WERE MADE POSSIBLE BY THE KIND PERMISSION OF MCGRAW-HILL BOOK COMPANY AND SPSS, INC.

## I. INTRODUCTION

### A. BACKGROUND AND APPROACHES

"WE ARE CONVINCED THAT THE DANGER OF NEGLECTING THE PHENOMENON OF TELEPATHY IN MANY RESPECTS IS MUCH GREATER THAN THE DANGER OF UNJUSTLY WASTING OUR EFFORTS AND TIME."

I. M. KOGAN  
CHAIRMAN OF THE BIOINFORMATION SECTION OF THE  
MOSCOW BOARD OF THE A. S. POPOV SOCIETY, USSR  
1969

PARAPSYCHOLOGY, OR THE STUDY OF "PSI" PHENOMENA HAS EVOLVED OVER THE CENTURIES FROM PREHISTORIC TIMES OF SUPERSTITION, MAGIC OR MYSTICISM TO A HIGHLY TECHNICAL AND EXACTING STUDY OF THE PARANORMAL FUNCTIONING OF THE HUMAN SYSTEM TODAY. THE TERM PARAPSYCHOLOGY REFERS TO THE STATISTICAL, PSYCHOLOGICAL AND PHYSIOLOGICAL ASPECTS OF UNUSUAL (PARANORMAL) MENTAL PERCEPTION OR INFLUENCE BETWEEN LIVING ORGANISMS AND THE SURROUNDING ENVIRONMENT WITHOUT THE MEDIATION OF THE KNOWN SENSE ORGANS OR OF PRESENTLY IDENTIFIED ENERGY-TRANSFER MECHANISMS. ITS RELATIONSHIP TO NATIONAL SECURITY AFFAIRS EVOLVED FROM RECENT INTEREST GENERATED BY THE NEWS MEDIA INTO AN INCREASED AWARENESS THAT THE SOVIET UNION HAS BEEN SERIOUSLY ENGAGED IN THE STUDY OF PSYCHENERGETICS.<sup>1</sup> ESTIMATES OF OFFICIAL SOVIET ANNUAL EXPENDITURES RUN AS HIGH AS 21 MILLION DOLLARS, A GIGANTIC SUM CONSIDERING US FUNDING IS ESTIMATED TO BE LESS THAN ONE-TWENTIETH THAT AMOUNT [TART 1978].

SINCE A WASHINGTON POST [1977] ARTICLE FIRST APPEARED THERE HAVE BEEN COUNTLESS ARTICLES IN REPUTABLE NEWSPAPERS AS WELL AS THE SENSATIONALIST "GOSSIP TABLEAUS" EXTOLLING THE "REAL THREAT" SOVIET PARAPSYCHOLOGY POSES TO OUR ARMED

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<sup>1</sup>PSYCHENERGETICS, A TERM COINED BY THE SOVIETS, ADDRESSING THE PARANORMAL FUNCTIONING OF THE HUMAN BRAIN AND ITS ENERGIES, HAS GRADUALLY GAINED POPULARITY IN THE US.

FORCES AS WELL AS TO OUR POLITICAL LEADERS. ACCORDING TO ONE DECLASSIFIED GOVERNMENT DOCUMENT [MAIRE 1975], WITHIN TEN YEARS, THE SOVIETS COULD DEVELOP A PSYCHIC POWER THAT COULD "KILL OUR POLITICAL LEADERS IN AN INSTANT...." WHILE THIS GOVERNMENTAL STUDY WAS NOT TYPICAL OF ITS USUALLY RESPONSIBLE STYLE, IT DID GENERATE CONSIDERABLE INTEREST IN THE UNITED STATES AND SET THE TONE FOR FUTURE ARTICLES.

THIS THESIS DOES NOT PRESENT REVELATIONARY INFORMATION OR RESEARCH, ONLY A COLLATION OF "EXPERT"<sup>2</sup> OPINION IN AN ACADEMIC EFFORT TO BETTER UNDERSTAND CURRENT BELIEFS. IT WAS FOR THIS REASON THAT THE AUTHOR ATTEMPTED TO PROVIDE CURRENT RESEARCHERS WITH A VEHICLE FOR FURTHER STUDY WHICH MAY NOT HAVE OTHERWISE BEEN PRESENTED. THE READER IS ENCOURAGED TO DRAW UPON THIS PRESENTATION OF DATA TO FURTHER EXAMINE MANY OF THE QUESTIONS WHICH HAVE UNDOUBTEDLY BEEN RAISED WHILE MAKING HIS OWN DECISION AS TO ITS RELEVANCE.

IN ORDER TO COLLECT THE NECESSARY DATA, THE AUTHOR POLLED TWO HUNDRED US CIVILIAN PARAPSYCHOLOGY-RELATED AUTHORS ON THEIR BACKGROUND AND BELIEFS AS WELL AS WHETHER OR NOT THEY HAD HAD CONTACT WITH WARSAW PACT SCIENTISTS. THE SUMMARY AND A LAYMAN'S ANALYSIS OF THAT AUGUST 1978 QUESTIONNAIRE IS PROVIDED FOR THE EDIFICATION OF THE READER.

## B. SUMMARY OF RESULTS

THE SOVIET UNION HAS HAD A LONG HISTORY OF INVOLVEMENT IN THE FIELD OF PARAPSYCHOLOGY. WHETHER OR NOT THIS INVOLVEMENT IS OFFICIALLY SANCTIONED OR SUPPORTED IS NOT KNOWN. ONE CAN SPECULATE THAT, REALIZING THE POTENTIAL BENEFITS THE DEVELOPMENT OF PSI ABILITIES COULD HAVE, THE KREMLIN WOULD CERTAINLY DEVOTE RESOURCES TO THAT STUDY. IF OFFICIAL WORK

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<sup>2</sup>WHEN ELICITING THE JUDGEMENTS OF EXPERTS ON "FUZZY" ISSUES OR ABOUT "VALUES" WHICH MAY VARY WIDELY FROM PERSON TO PERSON, THERE ARE REALLY FEW "EXPERTS" IN THE KNOWLEDGEABLE SENSE. IT IS ASSUMED THAT THE SELECTION OF THE PARTICULAR SUBPOPULATION USED HEREIN IS MORE APPROPRIATE THAN AN "UNINFORMED PUBLIC."



IS BEING PERFORMED, IT IS ON A VERY CLASSIFIED LEVEL WITH FEW PERSONS INVOLVED. THIS WORK WAS NOT DESIGNED TO CONFIRM OR DENY THAT POSTULATION.

RESULTS OF THE QUESTIONNAIRE SUGGEST THAT, IN THE US, BELIEF IN THE PHENOMENON OF ESP IS ON THE RISE. RESEARCHERS ARE BEGINNING TO ALIGN THEMSELVES MORE WITH THE SOVIET APPROACH OF FINDING THE CAUSES OF PSYCHIC PHENOMENA RATHER THAN DETERMINING IF THEY EXIST. MANY FEEL THAT THE SOVIETS ARE INTERESTED IN AMERICAN PARAPSYCHOLOGY STUDIES AND THAT MILITARY USES ARE POSSIBLE IN THE FUTURE, BUT NOT WITHIN TEN YEARS. THERE IS STILL MUCH DOUBT IN THIS AREA, ALTHOUGH MOST BELIEVE THAT THE USSR WOULD USE PSI ABILITIES SHOULD THEY DEVELOP THE CAPABILITY.

IT APPEARS OBVIOUS FROM THE DATA THAT THE SOVIETS WILL CONTINUE TO PURSUE RESEARCH INTO PSYCHIC PHENOMENA AS IT COULD HAVE DIRECT APPLICATIONS TO THEIR WELL-PUBLICIZED INTENTIONS OF WORLD HEGEMONY. IF A BREAKTHROUGH WERE TO DEVELOP, OUR EXPERTS FEEL THAT APPLICATIONS TOWARD THOSE ENDS ARE SURE TO FOLLOW.

HOPEFULLY, THIS RESEARCH WILL STIMULATE FURTHER INVESTIGATIONS AND SUPPORT ON AN OFFICIAL LEVEL BY UTILIZING THE DIVERSE BACKGROUNDS OF OUR PROFESSIONAL CIVILIAN SECTOR AND THE BROAD BASE OF RESOURCES AVAILABLE THROUGH GOVERNMENTAL RESEARCH FUNDS. IT IS INTERESTING TO NOTE THAT OVER EIGHT-TENTHS OF THE RESPONDENTS FELT THAT THE UNITED STATES GOVERNMENT SHOULD DEVOTE MORE RESOURCES TO FURTHER EXPLORATION OF PSYCHIC PHENOMENA. AS IN THE SOVIET QUOTATION AT THE BEGINNING OF THIS WORK, THE UNITED STATES MUST PURSUE THIS AREA FURTHER UNTIL A SATISFACTORY POSITION IS REACHED, IN ORDER TO MAKE PROPER ASSESSMENTS OF PSYCHIC PHENOMENA AND THEIR POTENTIAL USES.

## II. DEVELOPMENT OF SOVIET PARAPSYCHOLOGY

### A. BRIEF HISTORY

VERY FEW SCIENTIFIC ARTICLES HAVE YET TO EMERGE FROM THE SOVIET UNION WHICH GIVE RESULTS OF EXPERIMENTATION CONDUCTED IN THIS AREA. IT HAS ONLY BEEN WITHIN THE PAST 20 YEARS THAT A FAIRLY LARGE BODY OF POPULAR LITERATURE HAS SURFACED. WHAT LITTLE INFORMATION THAT DOES EXIST IS PRESENTED HERE AS A BRIEF INTRODUCTION TO THE HISTORICAL ASPECTS OF SOVIET PARAPSYCHOLOGY. THIS WILL BE FOLLOWED BY A DISCUSSION OF CURRENT RESEARCH EFFORTS AND SPECULATION WHICH WAS GARNERED FROM OPEN-SOURCE LITERATURE.

THE HISTORY OF SOVIET RESEARCH IN PARAPSYCHOLOGY OR PSYCHOCENERGETICS DATES TO THE FIRST PART OF THE TWENTIETH CENTURY WHEN VLADIMIR M. BEHTEREV, A STUDENT OF THE FAMED IVAN PAVLOV, FOUNDED THE INSTITUTE FOR THE STUDY OF THE BRAIN AND NERVOUS ACTIVITY IN PETROGRAD (NOW LENINGRAD). FROM 1920 UNTIL HIS DEATH IN 1927, BEHTEREV WAS ACTIVE IN STUDYING MENTAL SUGGESTION AND TELEPATHY IN ANIMALS (DOGS) AS WELL AS HUMANS. HIS RESEARCH LED HIM TO CONCLUDE THAT ANIMALS, ESPECIALLY DOGS, COULD BE INFLUENCED TO OBEY COMMANDS BY MENTAL SUGGESTION ALONE.

THE SECOND ALL RUSSIAN CONGRESS OF PSYCHONEUROLOGY HELD IN PETROGRAD IN 1924 OFFICIALLY RECOGNIZED THE IMPORTANCE OF RESEARCH IN MENTAL SUGGESTION AND RECOMMENDED SCIENTIFIC PARTICIPATION IN THE WORK OF THE INTERNATIONAL COMMITTEE FOR PSYCHICAL RESEARCH WHICH HAD BEEN FOUNDED IN 1921. IT WAS HERE THAT THE WORK OF L. L. VASIL'YEV WAS REPORTED IN HIS PAPER ENTITLED: "THE BIOPHYSICAL FOUNDATIONS OF DIRECT THOUGHT TRANSMISSION." BOTH HE AND BEHTEREV WITH OTHER SCIENTISTS CONTINUED A PROGRAM OF RESEARCH AND STUDY UNDER THE NAME OF THE EXPERIMENTAL COMMISSION ON HYPNOSIS AND PSYCHOPHYSICS UNTIL BEHTEREV'S DEATH. THE FOLLOWING YEAR VASIL'YEV VISITED PARAPSYCHOLOGICAL CENTERS IN PARIS AND

BERLIN IN HIS EFFORT TO ESTABLISH PERSONAL CONTACTS AND GAIN INFORMATION FOR THE INSTITUTE.

IN 1932, L. L. VASIL'YEV WAS ASSIGNED THE TASK OF FINDING THE PHYSICAL ANTECEDENTS OF TELEPATHY, AN ENDEAVOR WHICH LASTED UNTIL 1938. THE STUDY WAS DIRECTED IN RESPONSE TO THE CLAIMS OF AN ITALIAN PHYSICIST FERDINANDO CAZZAMALLI WHO HAD FOUND THE EXISTENCE OF BRAIN WAVES ONE CENTIMETER IN LENGTH WHICH, THEORETICALLY, COULD HAVE BEEN THE PHYSICAL BASIS OF TELEPATHY. THEIR TESTS, WHICH ATTEMPTED TO INFLUENCE A PERSON TELEPATHICALLY WHILE HE WAS INSIDE A METAL CHAMBER, FAILED TO CONFIRM CAZZAMALLI'S CLAIM. AFTER 1938 NO MENTION OF TELEPATHY SURFACED IN THE SOVIET UNION PRESS FOR MANY YEARS DUE TO THE POLITICAL AND ECONOMIC UPHEAVAL CAUSED BY WORLD WAR II. THE OFFICIAL SOVIET ENCYCLOPEDIA OF 1955 DENOUNCED PSYCHOENERGETICS AS "THE NON-SCIENTIFIC IDEALISTIC CONSIDERATION OF SUPERNATURAL ABILITIES OF PERCEPTUAL PHENOMENA." YEARS WOULD PASS BEFORE THAT CHANGED.

IT WAS NOT UNTIL 1959 THAT VASIL'YEV PUBLISHED A POPULAR BOOK, MYSTERIOUS PHENOMENA OF THE HUMAN PSYCHE IN WHICH TWO CHAPTERS ENTITLED "IS THERE A 'MENTAL RADIO'?" AND "WHAT CAN BE SAID ABOUT 'EXTRASENSORY PERCEPTION'?" WERE DEVOTED TO THE TOPIC [VASIL'YEV 1967].

EARLY IN 1960 VASIL'YEV RECEIVED TWO ARTICLES FROM R. L. KHERUMIAN, A MEMBER OF THE PARIS INSTITUT METAPSYCHIQUE, RELATING A HIGHLY SUCCESSFUL ESP EXPERIMENT SAID TO HAVE TAKEN PLACE BETWEEN AN AMERICAN LABORATORY AND THE SUBMERGED US SUBMARINE NAUTILUS. THE TWO ARTICLES WERE "THOUGHT TRANSMISSION - WEAPON OF WAR" IN THE FRENCH MAGAZINE CONSTELLATION, PUBLISHED AT THE END OF 1959, AND "ABOUT THE NAUTILUS" FROM SCIENCE ET VIE IN FEBRUARY 1960. [MUTSCHALL 1968].

EVEN THOUGH LATER REPORTED TO BE A HOAX BY WASHINGTON OFFICIALS, IT WAS APPARENTLY TAKEN VERY SERIOUSLY IN RUSSIA. VASIL'YEV QUICKLY SEIZED THIS OPPORTUNITY TO BRING TO LIGHT HIS OWN RESEARCH OF THE 20'S AND 30'S AND OBTAINED APPROVAL

TO ESTABLISH A SPECIAL LABORATORY FOR THE STUDY OF TELEPATHIC PHENOMENA AT THE INSTITUTE OF PHYSIOLOGY OF THE BIOLOGICAL DEPARTMENT OF LENINGRAD UNIVERSITY. FROM ITS ESTABLISHMENT IN 1960 UNTIL HIS DEATH IN 1966, VASIL'YEV WORKED TO CONFIRM SOME OF HIS EARLIER EXPERIMENTS IN DISTANT INFLUENCE AND THE ELECTROMAGNETIC HYPOTHESIS. WHILE ACHIEVING SUCCESSES IN MUCH OF HIS WORK, HE CONCLUDED THAT THE EM HYPOTHESIS DID NOT APPLY IN THIS INSTANCE. LITTLE INFORMATION IS AVAILABLE REGARDING EXPERIMENTAL FINDINGS AT THE INSTITUTE WHICH HE FOUNDED AND DIRECTED THE LAST SIX YEARS OF HIS LIFE.

IN 1965, THE DEPARTMENT OF BIOINFORMATION OF THE SCIENTIFIC AND TECHNICAL SOCIETY OF RADIO ENGINEERING AND TELECOMMUNICATIONS IN MOSCOW WAS ESTABLISHED. ITS STATED OBJECTIVES WERE TO DISCUSS PHYSICAL, BIOLOGICAL, AND PHILOSOPHICAL ASPECTS OF BIOINFORMATION AND TO ACQUAINT THE SOVIET SCIENTIFIC COMMUNITY WITH PARAPSYCHOLOGICAL RESEARCH CONDUCTED OUTSIDE THE SOVIET UNION. A MEMBER OF THAT DEPARTMENT, I. M. KOGAN, GIVES DESCRIPTIONS AND ANALYSIS OF THE INFORMATION CONTENT OF SOME EXPERIMENTS CONDUCTED IN THE YEARS 1966-67 IN HIS PAPER, "THE INFORMATION THEORY ASPECT OF TELEPATHY," [KOGAN 1969].

IN THAT WORK, HE DESCRIBES SUCCESSFUL EXPERIMENTS OF LONG-DISTANCE MENTAL SUGGESTION OF IMAGES OF OBJECTS CARRIED ON BETWEEN MOSCOW AND TOMSK (4000 KM) AND BETWEEN LENINGRAD AND MOSCOW (600 KM). THE PAPER CONCLUDED WITH THE POSSIBILITY OF USING "...TELEPATHY FOR CONSTRUCTING INFORMATION TRANSMISSION CHANNELS."

ONE OF THE MOST STARTLING DEMONSTRATIONS OF PSYCHIC ABILITY HAS COME FROM MRS. NINA (NINEL) S. KULAGINA WHO IS BEST KNOWN FOR HER REPORTEDLY EXCEPTIONAL PSYCHOKINETIC ABILITIES. DISCOVERED BY PROFESSOR VASIL'YEV, SHE HAS BEEN EXAMINED BY, AMONG OTHERS, G. A. SERGEYEV, A NEUROPHYSIOLOGIST AND ELECTROENCEPHALOLOGRAPHER IN LENINGRAD. HE STATED THAT, AFTER INVESTIGATION, HE HAD OBTAINED COMPELLING



EVIDENCE OF THE GENUINENESS OF HER PK ABILITIES. AFTER CAREFUL STUDY BY PARAPSYCHOLOGISTS FROM THE WEST, B. HERBERT OF THE PARAPHYSICAL LABORATORY IN ENGLAND AND M. ULLMAN OF THE MAIMONIDES MEDICAL CENTER IN BROOKLYN AS WELL AS A CZECH PSYCHOLOGIST, Z. REJDAK, THEY COULD FIND NO CONCEIVABLE NORMAL EXPLANATIONS FOR HER ABILITY [PRATT 1977].

THOSE ABILITIES INCLUDED ROLLING SMALL METALLIC AND NON-METALLIC CYLINDERS ACROSS A TABLE AT A DISTANCE OF 10-20 CENTIMETERS, MOVING VARIOUS WEIGHTS OF OBJECTS WEIGHING UP TO 50 GRAMS AND INFLUENCING THE MOTION OF A SPRING-SUSPENDED PING-PONG BALL INSIDE A PLEXIGLAS CUBE. EVEN THOUGH NOT CAREFULLY CONTROLLED, THESE EXPERIMENTS COULD NOT BE DUPLICATED OR EXPLAINED IN "NORMAL" TERMS.

SINCE THE PUBLICATION OF OSTRANDER AND SCHROEDER'S BOOK PSYCHIC DISCOVERIES BEHIND THE IRON CURTAIN IN 1971, THE AMERICAN PUBLIC HAS BECOME AWARE OF PARAPSYCHOLOGY, ESPECIALLY SOVIET STUDIES. THIS BOOK WAS THE PRECURSOR TO MANY POPULAR ARTICLES APPEARING IN THE PRESS AND VARIOUS PERIODICALS. CLEARLY, MANY AMERICANS FELT THAT WE WERE IN A RACE WITH THE SOVIETS TO DEVELOP "PSYCHIC WEAPONS OF WAR."

AT THE 1973 CONFERENCE OF THE USSR SOCIETY OF PSYCHOLOGISTS HELD IN THE SOVIET UNION, LEADING PSYCHOLOGISTS EXAMINED PARAPSYCHOLOGY AND ESTABLISHED WHAT MAY BE CONSIDERED AS AN "OFFICIAL" POLICY FOR THAT STUDY. THEY CONCLUDED THAT THE FOLLOWING AREAS WERE CONSIDERED AS LEGITIMATELY FALLING WITHIN THE SCOPE OF PARAPSYCHOLOGY: PSYCHOKINESIS, TELEPATHY, CLAIRVOYANCE, PRECOGNITION, DOWSING, PSYCHIC HEALING AND PSYCHIC PHOTOGRAPHY. ABSENT WAS THE AREA OF REMOTE VIEWING OR "OUT-OF-BODY EXPERIENCE" (OBE). AT A 1970 INTERNATIONAL CONFERENCE OF PARAPSYCHOLOGISTS HELD IN THE SOVIET UNION, SOVIET RESEARCHERS WERE VERY RELUCTANT TO DISCUSS REMOTE VIEWING AND WOULD ACKNOWLEDGE COGNIZANCE ONLY IF MENTIONED BY A WESTERN ATTENDEE.

SINCE THE MID-1970'S, VERY LITTLE INFORMATION HAS EMERGED FROM THE SOVIET UNION CONCERNING THEIR STUDIES IN THIS FIELD. THE REASON FOR THIS CURTAILMENT COULD BE FOR

POLITICAL OR SECURITY REASONS. REGARDLESS, WE KNOW THAT ONGOING RESEARCH IS BEING CONDUCTED AS WILL BE POINTED OUT IN THE RESULTS SECTION OF THE QUESTIONNAIRE.

## B. CURRENT SPECULATIONS

SO MANY WILD SPECULATIONS EXIST WHICH GIVE THE SOVIETS AN INCREDIBLE ABILITY WHICH THE UNITED STATES DOES NOT POSSESS THAT THE AUTHOR WILL LEAVE MOST OF THESE TO THE SENSATIONALISTS. SOME HYPOTHESES ARE PRESENTED HERE AS A MATTER OF RECORD IN THAT THEY COULD, IF DEVELOPED, POSE A THREAT TO OUR NATIONAL SECURITY.

IN A RESEARCH REPORT BY ROBERT C. BECK, DIRECTOR OF THE BIO-MEDICAL RESEARCH ASSOCIATES OF LOS ANGELES [AHP 1978], INFORMATION IS PRESENTED THAT THE SOVIETS HAVE BEEN UTILIZING EXTREME LOW FREQUENCY RADIO WAVES MODULATED AT PULSE REPETITION RATES OF 5-15 HZ AT POWERS UP TO 40 MEGA-WATTS. ORIGINALLY FELT TO BE OVER-THE-HORIZON RADAR, IT HAS BEEN DISCOVERED THAT MANY HUMAN ANIMAL SUBJECTS EXHIBIT PSYCHOPHYSIOLOGICAL SENSITIVITY TO THESE FREQUENCIES. DR. BECK GOES ON TO STATE THAT THESE FREQUENCIES FALL PRECISELY WITHIN THE PSYCHOAFFECTIVE RANGE OF NEURONAL SYNCHRONIZATION OR BRAINWAVE ENTRAINMENT WHERE SUBJECTS EXPERIENCE STATES FROM DECREASED ANXIETY TO EXTREME DISORIENTATION AND EVEN UNCONSCIOUSNESS. REPORTS OF DISORIENTATION ASSOCIATED WITH THESE ELF SIGNALS HAVE BEEN REPORTED FROM EUGENE, OREGON. APPARENTLY PEOPLE IN EUGENE HAVE COMPLAINED ABOUT "ODD ATMOSPHERIC SENSATIONS" CAUSING HEADACHES, DRY THROATS, DEPRESSION, HIGH ANXIETY, IRRITABILITY AND LOSS OF SLEEP. IT HAS BEEN SPECULATED THAT THESE SIGNALS HAVE ORIGINATED FROM DEEP WITHIN THE SOVIET UNION [SAN JOSE MERCURY 1978]. THEIR TRUE PURPOSE HAS YET TO BE CONFIRMED.

ANOTHER AREA WHICH, IF SUFFICIENTLY DEVELOPED, COULD HAVE UNPRESIDENTED APPLICATIONS IS THE AREA OF REMOTE VIEWING. AT THE STANFORD RESEARCH INSTITUTE IN MENLO PARK, CALIFORNIA, DOCTORS RUSSELL TARG AND HAROLD PUTHOFF HAVE ACHIEVED ENORMOUS SUCCESS AND KNOWLEDGE IN THIS AREA. REMOTE

VUEWING REFERS TO THE ABILITY OF INDIVIDUALS TO "ACCESS AND DESCRIBE, BY MEANS OF MENTAL PROCESSES, REMOTE GEOGRAPHICAL LOCATIONS UP TO SEVERAL THOUSAND KM DISTANT FROM THEIR PHYSICAL LOCATION..."<sup>3</sup> THERE IS REASON TO BELIEVE THAT THE SOVIETS ARE ENGAGED IN SIMILAR STUDIES AS THIS RESEARCH HAS RECEIVED WIDE PUBLICITY.

MANY OTHER AREAS HAVE VARYING DEGREES OF APPLICATIONS FOR MILITARY EXPLOITATION FOR WHICH SPORATIC SUCCESSES HAVE BEEN REPORTED FROM THE USSR. TWO OF WHICH ARE DERMAL (SKIN) VISION [TIME 1974], GIVING REPORTS OF BLINDFOLDED WOMEN WHO CAN "SEE" COLORS WITH THEIR HANDS, AND PSYCHOTRONIC GENERATORS WHICH SUPPOSEDLY HAVE THE ABILITY TO STORE AND RELEASE "PSYCHIC ENERGY" TO ROTATE SMALL DISCS, PURIFY POLLUTED WATER, AND ACT AS A MAGNETIZER [MISHLOVE 1975]. THE VALIDITY OF THESE AND OTHER CLAIMS ARE NOT A MATTER OF EXAMINATION IN THIS WORK AND ARE MORE APPROPRIATE TO RESEARCHERS AND OTHERS MORE DIRECTLY INVOLVED.

A GROUP OUT OF LOS ANGELES, CALIFORNIA HAS BEEN PERFORMING "PSYCHIC PROBES" INTO THE SOVIET UNION TO DETERMINE THE STATE OF CONTEMPORARY SOVIET PSYCHIC RESEARCH. IN THEIR FINDINGS THEY OBSERVE THAT THE SOVIETS HAVE BEEN USING COSMONAUTS IN THEIR SPACE PROGRAM TO PERFORM PSYCHIC EXPERIMENTS; THAT THEY HAVE CUBICLES OR ROOMS FOR PSYCHICS WHO ATTEMPT TO REMOTE VIEW VARIOUS TARGETS; THAT THEY HAVE A PROGRAM TO IDENTIFY AS WELL AS CREATE PSYCHICS, PARTICULARLY CHILDREN OF HIGH IQ; THAT THEY ARE WORKING TOWARDS METHODS FOR EXERCISING CONTROL OVER THOUGHT PROCESSES, PARTICULARLY IN THE AREA OF "PROJECTING" INFORMATION AS COMPARED TO "RECEIVING" INFORMATION; AND THAT THIS MASSIVE COVERT PSI-RESEARCH IS FUNDED AND DIRECTED FROM THE HIGHEST LEVEL OF SOVIET GOVERNMENT. THEIR OBSERVATIONS WERE BASED UPON TEN PSYCHICALLY-GIFTED RESPONDENTS WHO WERE ASKED TO

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<sup>3</sup> HAROLD E. PUTHOFF AND RUSSELL TARG, "DIRECT PERCEPTION OF REMOTE GEOGRAPHICAL LOCATIONS," PAPER PRESENTED TO IEEE NATIONAL CONVENTION, ELECTRO 77, NEW YORK, 12 APRIL 1977.



PROVIDE INFORMATION ON SOVIET WORK [COMPASS GROUP 1978] .  
THE RESULTS OF THEIR "PROBE" ARE PRESENTED AS A MATTER OF  
INTEREST WITHOUT FURTHER SUBSTANTIATION OR CONFIRMATION.

#### C. SOVIET WORK AND THE AMERICAN PRESS

IN 1977 A GROUP OF ARTICLES APPEARED IN THE NEW YORK TIMES RELATING THE STORY OF A SOVIET EMIGRE, AUGUST STERN NOW LIVING IN PARIS, THAT HAD BEEN DOING "SECRET WORK IN PARAPSYCHCLOGY, FOR WHAT APPEAR[ED] TO BE MILITARY AND POLICE PURPOSES." THE ARTICLE RELATED MR. STERN'S STATEMENTS WITH THE CASE OF ROBERT C. TOTH A FORMER CORRESPONDENT OF THE LOS ANGELES TIMES, WHO WAS SEIZED BY THE K.G.B. AFTER RECEIVING A 25-PAGE DOCUMENT ON PARAPSYCHCLOGY. THE TOTH INCIDENT IS A MATTER OF HISTORY, BUT SUGGESTS THE IMPORTANCE THE SOVIETS PLACE ON THEIR RESEARCH IN THIS FIELD. IN THE SAME ISSUE, A RELATED ARTICLE INDICATED CONCERN OVER SOVIET RESEARCH BUT THAT:

"ALTHOUGH THE RUSSIANS ARE INDEED PURSUING PARAPSYCHOLOGY RESEARCH, MUCH OF IT UNDER MILITARY AUSPICES, THEY HAVE NOT DISCOVERED OR DEVELOPED ANYTHING THAT AMERICAN RESEARCHERS DO NOT ALREADY KNOW."<sup>4</sup>

IT ALSO STATED THAT THE MENNINGER FOUNDATION HAD SUGGESTED THAT AMERICAN SCIENTISTS LEARN AS MUCH AS POSSIBLE ABOUT PSYCHOTRONICS, "BEFORE THE RUSSIANS GET THE UPPER HAND." IN ADDITION, WILLIAM TARG, A PUTNAM BOOKS EXECUTIVE, STATED THAT, "THE REAL RACE NOW BETWEEN THE RUSSIANS AND US IS IN THE AREA OF SCIENCES LIKE ESP."<sup>5</sup>

IN A WIDELY PUBLICIZED ARTICLE WHICH APPEARED IN THE WASHINGTON POST [1974] JOHN WILHELM RELATED HOW THE CIA, THE PENTAGON AND THE RUSSIANS ARE PROBING THE MILITARY POTENTIAL

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<sup>4</sup>BOYCE RENSBERGER, "GAINS IN ESP STUDIES BY SOVIET DOUBTED BY AMERICAN SPECIALISTS," NEW YORK TIMES, 19 JUNE 1977, P. 20.

<sup>5</sup>"BOOM TIMES ON THE PSYCHIC FRONTIER," TIME, 4 MARCH 1974, P. 72.

OF PARAPSYCHOLOGY. IN THIS ARTICLE, RON ROBERTSON, A SECURITY OFFICER AT THE LAWRENCE LIVERMORE LABORATORY IN CALIFORNIA STATED THAT, USING PSYCHOKINETIC ENERGY, IT WOULD TAKE ONLY THE MOVEMENT OF "ONE-EIGHTH OF AN OUNCE A QUARTER OF AN INCH AT A DISTANCE OF ONE FOOT" TO TRIGGER OR DISABLE A WARHEAD. WHILE THIS CLAIM IS SERIOUSLY DOUBTED (AS BEING RIDICULOUS), IT AND OTHER CLAIMS CONTAINED IN THE ARTICLE RAISED QUITE A FUROR IN THE UNITED STATES. IT WAS THIS ARTICLE THAT PROMPTED THE AUTHOR TO UNDERTAKE AN INVESTIGATION OF THE OPINIONS OF OUR OWN LEADING SCIENTISTS AND PROVIDE AN OBJECTIVE EVALUATION OF THE "WARNINGS" CONTAINED IN THESE AND OTHER PUBLICATIONS.

IT IS APPARENT THAT SOVIET RESEARCH HAS BEEN CONDUCTED FOR MANY YEARS AND WILL CONTINUE FOR MANY YEARS TO COME. TOO MANY QUESTIONS HAVE BEEN THOUGHTFULLY POSED BY RESEARCHERS SUCH AS PROFESSORS VASIL'YEV AND KOGAN FOR THE SOVIET UNION TO ABANDON FURTHER STUDIES.

### III. THE QUESTIONNAIRE

#### A. PROCEDURE

THE QUESTIONNAIRE FOUND IN APPENDIX A ADMITTEDLY HAS MANY SHORTCOMINGS. A FEW OF THEM ARE ENUMERATED HERE. THE COMBINATION OF TWO POINTS THAT SHOULD HAVE BEEN STATED SEPARATELY; A BIAS ON THE PART OF THE AUTHOR AND THE RESPONDENTS; ASSUMPTIONS IN STATEMENTS WHERE NONE SHOULD BE; AND A FAILURE TO PRETEST. IN ANY EVENT, IT IS HOPED THAT EVEN WITH THESE GLARING ERRORS, THE RESPONSES WILL BE OF SOME VALUE.

THE QUESTIONNAIRE WAS DESIGNED TO ELICIT RESPONSES FROM PROFESSIONAL PSYCHOLOGISTS, DOCTORS, PROFESSORS AND KNOWLEDGEABLE LAY PERSONS WHO HAD AUTHORED AT LEAST ONE ARTICLE OR BOOK THAT DEALT WITH SOME ASPECT OF PARAPSYCHOLOGY. TO OBTAIN A LIST OF APPROXIMATELY 200 AUTHORS, A COMPUTER SEARCH WAS MADE WITH LOCKHEED CORPORATION'S DIALOG INFORMATION RETRIEVAL SERVICE WHICH PROVIDED THE INTERFACE FOR THE SEARCH OF THE PSYCHOLOGICAL ABSTRACTS PROVIDED BY THE AMERICAN PSYCHOLOGICAL ASSOCIATION. THE SEARCH RETRIEVED ABSTRACTS OF KEY-WORDED ARTICLES BY SCANNING 900 PERIODICALS AND OVER 1500 BOOKS AND MONOGRAPHS. BY LIMITING THE SEARCH TO THE PAST TEN YEARS IT WAS REASONABLY ASSURED THAT THE OPINION POLL WOULD BE DERIVED FROM THOSE MOST RECENTLY WORKING IN THE FIELD. THE FOLLOWING KEY WORDS FOR EITHER THE TITLE OF THE ARTICLE OR A SUBJECT TERM PROVIDED OVER 400 ARTICLES, BOOKS AND MONOGRAPHS ON THE AREA: PARAPSYCH?, EXTRASENSORY PERCEPTION (ESP), PSYCHOKINESIS, TELEPATHY, PSYCHOENERGETICS AND PSI. FROM THIS LIST SEVERAL HUNDRED NAMES WERE RETRIEVED. FROM THESE, ADDRESSES WERE FOUND USING THREE SOURCES: AMERICAN MEN AND WOMEN OF SCIENCE, BIOGRAPHICAL DIRECTORY OF THE AMERICAN PSYCHOLOGICAL ASSOCIATION 1975, AND THE NATIONAL FACULTY DIRECTORY 1978. WHERE POSSIBLE, UPDATED ADDRESSES WERE OBTAINED FROM RECENT

ARTICLES APPEARING IN PERIODICALS LOCALLY AVAILABLE.

OF THE 198 NAMES THUS OBTAINED, 27 WERE RETURNED WITH "ADDRESS UNKNOWN," LEAVING 171. OF THESE 79 WERE RECEIVED IN TIME FOR THE COMPUTER RUNS AND TWO WERE NOT, WHICH GAVE A RESPONSE RATE OF 47%. MAILED QUESTIONNAIRES TYPICALLY RECEIVE A RESPONSE RATE OF BETWEEN 20 AND 40% WITH THE LOWER FIGURE PREDOMINATING.<sup>6</sup>

ALTHOUGH THE QUESTIONNAIRE WAS NOT CODED AS TO MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS, OF THE 171 THAT WERE MAILED 53 (31%) WERE FULL MEMBERS OF THE PARAPSYCHOLOGICAL ASSOCIATION AND 19 (11%) WERE ASSOCIATE MEMBERS. THE CRITERION FOR FULL MEMBERSHIP IS A HIGH STANDARD OF SCIENTIFIC WORK PUBLISHED IN REPUTABLE SCIENTIFIC JOURNALS, WHILE THE CRITERIA FOR ASSOCIATE MEMBERSHIP ARE ONLY A COLLEGE EDUCATION AND A PROMISE OF MAKING SCIENTIFIC CONTRIBUTIONS. OF THE AMERICAN PSYCHOLOGICAL ASSOCIATION, THERE WERE 13 (8%) FELLOWS, 40 (23%) MEMBERS, AND FOUR (2%) ASSOCIATES OR 33% OF THOSE POLLED. IN ALL, 101 PERSONS OR 59% OF THOSE RECEIVING THE QUESTIONNAIRE WERE MEMBERS OF ONE OR BOTH ORGANIZATIONS.

APPENDIX B SHOWS THE RELATIVE BREAKDOWN OF PERIODICALS FROM WHICH THE NAMES WERE DERIVED. THREE-FOURTHS OF THE NAMES CAME FROM THE FOLLOWING: JOURNAL OF THE SOCIETY FOR PSYCHICAL RESEARCH, JOURNAL OF THE AMERICAN SOCIETY FOR PSYCHICAL RESEARCH, JOURNAL OF PARAPSYCHOLOGY AND PARAPSYCHOLOGY REVIEW.

THE FINAL QUESTIONNAIRE WAS A SLIGHT REVISION OF THE ORIGINAL THAT WAS SUBMITTED TO TWO PSYCHOLOGISTS AT THE NAVAL OCEAN SYSTEMS CENTER. HAVING ONLY BEEN EXPOSED TO QUESTIONNAIRES DURING AN UNDERGRADUATE PROGRAM IN PSYCHOLOGY AT OHIO STATE, THEIR COMMENTS AND SUGGESTIONS WERE INVALUABLE. THE COVER PAGE WAS REVISED IN AN ATTEMPT TO ELIMINATE ANY BIAS ON THE PART OF THE RESEARCHER BY MERELY PRESENTING

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<sup>6</sup>G.C. HELMSTADTER, RESEARCH CONCEPTS IN HUMAN BEHAVIOR, NEW YORK: APPLETON-CENTURY-CROFTS, 1970, P. 71.



THE FACTS. SINCE THE QUESTIONNAIRE CAME FROM A MILITARY INSTITUTION CARE HAD TO BE TAKEN TO ENSURE THAT IT DIDN'T APPEAR BIASED TOWARD A MILITARISTIC "RED SCARE" PREDILECTION OR SOUND THREATENING OR PARANOIC. IN ADDITION, TO ENSURE AN ADEQUATE AND AS OBJECTIVE A RESPONSE AS POSSIBLE, THE CONFIDENTIALITY OF THE RESPONDENT HAD TO BE SAFEGUARDED. THIS ENTAILED A PREFACING NOTE THAT THE QUESTIONNAIRE WAS SENT TO PERSONS WHO HAD AUTHORED ARTICLES ON THIS FIELD AS WELL AS ASKING ONLY PERTINENT BACKGROUND INFORMATION THAT WOULD BE USED IN THE ANALYSIS. VERY FEW RESPONDENTS IDENTIFIED THEMSELVES ON THE QUESTIONNAIRE FORM, BUT OVER HALF INCLUDED THEIR RETURN ADDRESS REQUESTING A COPY OF THE RESULTS. UPON RECEIPT THE NAMES AND QUESTIONNAIRES WERE SEPARATED BEFORE THE RESPONSES WERE CODED FOR ANALYSIS.

#### B. DESCRIPTION

THE FIRST PAGE, CONTAINING QUESTIONS ONE THROUGH SEVEN WERE INCLUDED TO ASCERTAIN THE BACKGROUND OF THE RESPONDENT. THE FIRST QUESTION WAS ULTIMATELY RECODED TO GIVE THE NUMBER OF YEARS INVOLVED WITH THE STUDY INSTEAD OF ACTUAL YEARS (AS PRESENTED). IN THIS WAY YEARS INVOLVED COULD BE ANALYZED WITH THE BELIEF SETS TO DETERMINE IF A RELATIONSHIP EXISTED.

QUESTIONS TWO AND THREE WERE FOR THE SAME PURPOSE AS WELL AS ELIMINATING THOSE WHO RESPONDED "NONE" ON NUMBER OF ARTICLES AS THE SET WAS DERIVED USING THE CRITERION OF ONE OR MORE ARTICLES. TWO RESPONSE SETS HAD TO BE ELIMINATED IN THIS FASHION.

QUESTION FOUR WAS INTENDED TO BE USED WITH THOSE WHO HAD HAD CONTACT WITH SOVIET SCIENTISTS AND HAD RESPONDED TO QUESTION SEVEN. IT WAS EXPECTED THAT THERE WOULD BE A HIGH CORRELATION BETWEEN THE TWO DATES.

NUMBER FIVE WAS ELIMINATED FROM THE STUDY AS IT OFFERED LITTLE IN THE WAY OF BACKGROUND. NEARLY EVERY RESPONDENT INDICATED THREE OR MORE SOURCES AND, THEREFORE, COULD BE CONSIDERED MORE COMPETENT THAN THE AVERAGE LAY PERSON. HAD THERE BEEN A GREAT DISPARITY BETWEEN RESPONSES

THE VALIDITY OF THE METHOD OF NAME RETRIEVAL WOULD HAVE BEEN IN GREATER DOUBT.

THE QUESTION OF CONTACT, NUMBER SIX, WAS DICHOTOMIZED TO EITHER "YES" OR "NO" AS THIS WAS THE ONLY PERTINENT INFORMATION NECESSARY FOR THE RESEARCH. IF THE RESPONSE TO SIX WAS "NO," QUESTIONS SEVEN AND 19 THROUGH 21 DID NOT APPLY.

QUESTIONS 19 THROUGH 21 REQUESTED INFORMATION THAT WAS EXCHANGED OR REQUESTED BY WARSAW PACT CITIZENS OR SCIENTISTS DURING THEIR PERIOD OF CONTACT. THOSE QUESTIONS WILL BE ADDRESSED LATER.

STATEMENTS EIGHT THROUGH EIGHTEEN WERE ORDINAL-LEVEL MEASUREMENTS OF DEGREES OF AGREEMENT OR DISAGREEMENT WITH THE PARTICULAR STATEMENT. SINCE THE DISTANCE BETWEEN "SOMEWHAT AGREE" AND "MILDLY AGREE" IS SUBTLE AND SUBJECT TO THE INTERPRETATION OF THE RESPONDENT, NO HIGHER LEVEL OF MEASUREMENT COULD BE ASSUMED. HERE TOO, THE BIAS OF THE RESPONDENT PLAYS AN IMPORTANT ROLE. PEOPLE HAVE A TENDENCY TO ANSWER IN RESPONSE SETS. E. G. THEY MAY AGREE MORE THAN DISAGREE; THEY MAY LEAN TOWARDS MORE STRONGLY WORDED CHOICES THAN OTHERS; OR THEY MAY HAVE A PROPENSITY FOR CENTRAL TENDENCY. IN ADDITION, SOME ARE INFLUENCED BY THE DIRECTION OF WORDING SO THAT THEY MAY CONCUR MORE WITH POSITIVELY RATHER THAN NEGATIVELY PHRASED SELECTIONS. THEREFORE, THE QUESTIONS WERE WORDED BOTH POSITIVELY AND NEGATIVELY IN ORDER TO ELICIT AS UNBIASED A RESPONSE AS POSSIBLE.

ON THE SUGGESTION OF A PSYCHOLOGIST, SEVEN CHOICES WERE USED INSTEAD OF FIVE TO GIVE MORE LATITUDE IN RESPONDING. FROM PREVIOUS EXPERIENCE WITH QUESTIONNAIRES, OFTEN THE CHOICE BETWEEN TWO RESPONSES DIDN'T QUITE GIVE THE RESPONSE THAT FIT. IT APPEARS THAT SEVEN CHOICES WERE WELL RECEIVED.

THERE WERE A COUPLE OF OBJECTIONS TO THE USE OF THE RESPONSE "NO OPINION." FOR FUTURE USE PERHAPS "NO OPINION/ DON'T KNOW" OR TWO SEPARATE CATEGORIES WOULD GIVE MORE INSIGHT AS TO THE ACTUAL MEANING. AS IT WAS USED, "NO OPINION" WAS ASSUMED SYNONYMOUS WITH "DON'T KNOW."

STATEMENT NUMBER EIGHT WAS UNDOUBTEDLY TWO STATEMENTS WHICH WERE NOT NECESSARILY CORRELATED (A SOPHOMORIC ERROR). SOME RESPONDENTS INDICATED AN AGREEMENT WITH THE EXISTENCE OF PSI PHENOMENA WHILE DOUBTING ANY PROSPECT FOR UNRAVELING THEM IN SCIENTIFIC TERMS. IN OTHER WORDS, PSI PHENOMENA MAY GO THE SAME ROUTE AS GRAVITY WHERE WE NOTE ITS EXISTENCE AND MEASURE IT BUT STILL CANNOT MANIPULATE OR EXPLAIN IT IN SCIENTIFIC TERMS. THE DISPARITY IN THIS QUESTION IS NOTED FOR THOSE FEW WHO INDICATED DIFFICULTY IN RESPONDING TO THE QUESTION AS PRESENTED. EVEN SO, THE STATEMENT WAS ANALYZED AS A UNIT.

QUESTIONS NINE THROUGH ELEVEN WERE USED TO DETERMINE THE KNOWLEDGE OR BIAS OF THE RESPONDENT BASED UPON WHETHER OR NOT THE RESPONDENT HAD BEEN IN CONTACT WITH A WARSAW PACT SCIENTIST.

NUMBER TWELVE WAS MISINTERPRETED BY A FEW INDIVIDUALS ASSUMING THAT "U.S." MEANT "GOVERNMENT." THIS WAS NOT THE INTENTION AS THERE IS LITTLE GOVERNMENTAL CONTROL OR SPONSORSHIP OF EXPERIMENTAL PROGRAMS OF THIS NATURE. IT WAS DESIGNED TO INCLUDE MAINLY CIVILIAN RESEARCHERS, AS THEY ARE DOING THE VAST MAJORITY OF RESEARCH.

STATEMENT 15 WAS ADDED AFTER LEARNING THAT A RECENTLY DECLASSIFIED DEFENSE INTELLIGENCE AGENCY SPONSORED STUDY, INCLUDED A STATEMENT QUOTING A "TOP U.S. EXPERT ON SOVIET AFFAIRS" AS WARNING:

"IF THE UNITED STATES DOES NOT MAKE A SERIOUS EFFORT TO MOVE FORWARD ON THIS NEW FRONTIER, IN ANOTHER TEN YEARS IT MAY BE TOO LATE."<sup>7</sup>

A DETERMINATION NEEDED TO BE MADE IF, IN THE JUDGEMENT OF PROFESSIONALS WORKING IN THE FIELD, THERE WILL BE A THREAT TO OUR NATIONAL SECURITY WITHIN TEN YEARS.

THE INTENTION OF STATEMENT 16 REGARDING THE "LEAD" IN PARAPSYCHOLOGY WAS TO DETERMINE IF RESPONDENTS PERCEIVED A

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<sup>7</sup>"THREAT FROM RUSSIAN PSYCHIC EXPERIMENTS," NATIONAL ENQUIRER, 7 MARCH 1978, P. 37.



RACE OR CONTEST BETWEEN "US" AND "THEM." THIS QUESTION WAS ANALYZED WITH RESPONSES TO STATEMENTS SIX, EIGHT, TEN, TWELVE, SEVENTEEN AND EIGHTEEN TO DETERMINE THE DEGREE OF COMPETITION THE RESPONDENT FELT.

STATEMENT 17 PARALLELS NUMBER 14 AND, AS IS SUSPECTED, ANY DEVELOPMENT OF THIS TYPE IS LIKELY TO FIND ITS WAY INTO MILITARY USES AS HAVE MANY OTHER TECHNOLOGICAL DISCOVERIES THROUGHOUT HISTORY.

THE FINAL OPINION STATEMENT, NUMBER 18, WAS INTENDED FOR THE GOVERNMENTAL RESEARCHERS AND/OR POLICY-MAKERS THAT CONTROL FUNDING. ANY RESPONSE TO THIS STATEMENT COULD LEAD ONE TO TWO DIFFERENT CONCLUSIONS. FIRST, THAT THE GOVERNMENT AGENCIES SHOULD BECOME DIRECTLY INVOLVED IN THE RESEARCH IN WHICH CASE THEY WOULD PROBABLY REQUIRE REASONABLY PREDICTABLE AND POSITIVE RESULTS (WITHOUT RECEIVING THEM AS IT STANDS NOW). OR SECONDLY AND PROBABLY MOST LIKELY, THAT THE CIVILIAN SCHOLARS WOULD WELCOME THE GRANTS AND FUNDING AS LONG AS RESTRICTIVE CONSTRAINTS OR REQUIREMENTS WERE NOT IMPOSED AS A PREREQUISITE TO THAT SUPPORT. THE KEY WORD HERE WAS "GOVERNMENT" INVOLVEMENT. THE RESULTS WERE SURPRISING.

OF THE FINAL THREE QUESTIONS TO THOSE WHO ANSWERED POSITIVELY AS TO WARSAW PACT CONTACT (#6), THOSE SETS OF QUESTIONS WERE DESIGNED TO MEASURE WHAT INFORMATION WAS REQUESTED OR EXCHANGED AS WELL AS WHETHER OR NOT INFORMATION WAS ONLY REQUESTED BUT NOT GIVEN TO US OR JUST GIVEN AND NOT RECEIVED, ETC. ADMITTEDLY, SOME OF THE SUBJECTS LISTED HAVE LITTLE OR NO RELATIONSHIP TO PARAPSYCHOLOGY BUT WERE MERELY PRESENTED TO INJECT WORDS THAT HAVE BEEN MENTIONED OR LINKED INDIRECTLY WITH THE PHENOMENA, ALLOWING THE RESPONDENT A GREATER LATITUDE IN HIS OPTIONS.

IT IS HOPED THAT THIS DISCUSSION OF THE SHORTCOMINGS OF THE QUESTIONNAIRE WILL AID FUTURE POLLS IN AVOIDING SIMILAR ERRORS AND PERHAPS LEAVE SOME QUESTIONS TO BE ASKED OR CLARIFIED IN FUTURE QUESTIONNAIRES. THE AUTHOR ATTEMPTED TO PRESENT AS UNBIASED A PRODUCT AS POSSIBLE BUT SOME QUESTIONS AND STATEMENTS ASSUMED THE EXISTENCE OF PSYCHIC

PHENOMENA, WHICH WAS NECESSARY IN DETERMINING BIASES IN THE ANALYSIS.

#### C. SPSS

THE STATISTICAL PACKAGE FOR THE SOCIAL SCIENCES, OR SPSS IS A SYSTEM OF COMPUTERIZED STATISTICAL PROGRAMS DESIGNED FOR THE ANALYSIS OF SOCIAL SCIENCE DATA. IT ENABLES THE RESEARCHER/USER TO UTILIZE MANY OF THE STATISTICAL EVALUATION TECHNIQUES COMMONLY USED IN THE SOCIAL SCIENCES.<sup>8</sup>

SPSS ALLOWS THE RESEARCHER WITH LITTLE OR NO PRIOR COMPUTER EXPERIENCE TO PERFORM HIS ANALYSIS BY USING NATURAL LANGUAGE CONTROL STATEMENTS WHICH GIVES HIM LARGE AMOUNTS OF COMPUTING POWER WITHOUT THE PROBLEMS OF HIGHER COMPUTER LANGUAGE AND ITS ASSOCIATED COMPLEXITIES.

BESIDES THE MORE COMMON DESCRIPTIVE STATISTICS, FREQUENCY DISTRIBUTIONS AND CROSSTABULATIONS, SPSS ALSO PERFORMS SIMPLE AND PARTIAL CORRELATIONS, MULTIPLE REGRESSION, FACTOR ANALYSIS, SCATTER DIAGRAMS, CANONICAL CORRELATIONS, ONE-WAY AND N-WAY ANALYSIS OF VARIANCE AND GUTTMAN SCALING. THE SUBPROGRAMS USED FOR THIS ANALYSIS WERE FREQUENCIES AND CROSSTABULATIONS OF SELECTED VARIABLES.

THE CROSSTABULATION PROCEDURE COMPUTES AND DISPLAYS TWO-WAY TO N-WAY CROSSTABULATION TABLES FOR ANY DISCRETE NUMERIC OR ALPHANUMERIC VARIABLES. AVAILABLE WITH THIS CONTINGENCY TABLE ANALYSIS ARE TESTS OF SIGNIFICANCE, I.E. CHI-SQUARE TEST. THESE DISTRIBUTIONS MAY ALSO BE SUMMARIZED BY MEASURES OF ASSOCIATION, SUCH AS THE CONTINGENCY FIGURE GAMMA, PHI AND TAU WHICH DESCRIBE HOW ONE VARIABLE PREDICTS OR VARIES WITH ANOTHER. IN ADDITION, PARTIAL GAMMAS MAY BE UTILIZED TO MEASURE THE RELATIONSHIP BETWEEN TWO VARIABLES CONTROLLING FOR OTHER VARIABLES. DISCUSSION OF THE SUMMARY STATISTICS FOR CROSSTABULATIONS ARE FOUND IN APPENDIX C.

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<sup>8</sup>FURTHER DISCUSSION OF SPSS CAPABILITIES MENTIONED BELOW MAY BE FOUND IN THE SPSS MANUAL [NIE 1975].

THE SUB-PROGRAM FREQUENCIES PRODUCES FREQUENCY DISTRIBUTION TABLES AND SUMMARY STATISTICS TO PROVIDE THE RESEARCHER WITH A MORE PRECISE DESCRIPTION OF THE DISTRIBUTIONAL CHARACTERISTICS OF THE VARIABLES PRODUCED BY SURVEY RESEARCH. IT ALSO ENABLES HIM TO PRODUCE A PERMANENT PRINT FILE OF THE BASIC REFERENCE DOCUMENT WHILE ALLOWING HIM TO CHECK THE VALIDITY OF THE DATA TO ENSURE THAT IT HAS BEEN CODED, PUNCHED, AND INPUT TO THE REQUIRED SPECIFICATIONS. AVAILABLE WITH THIS SUB-PROGRAM ARE HISTOGRAMS FOR EASY IDENTIFICATION OF ONE-WAY DISTRIBUTIONS AS WELL AS THE BASIC STATISTICS: MINIMUM, MAXIMUM, RANGE, MODE, MEDIAN, MEAN, VARIANCE, STANDARD DEVIATION, STANDARD ERROR, SKEWNESS AND KURTOSIS. THE LEVEL OF MEASUREMENT IS IMPORTANT, I.E. SMALL NUMBERS OF DISCRETE VARIABLES OR CONTINUOUS VARIABLES OF AN INTERVAL-LEVEL MEASUREMENT ONE MUST BE AWARE OF THE LIMITATIONS BASED UPON HIS CHOSEN LEVEL. A DESCRIPTION OF THE STATISTICS USED MAY BE FOUND IN APPENDIX C.

#### D. RESULTS

THE QUESTIONNAIRE BEGAN WITH BACKGROUND DATA ON THE RESPONDENT'S PERIOD OF ACTIVE INVOLVEMENT. AS WOULD HAVE BEEN EXPECTED, DUE TO THE SELECTION BIAS, THE MAJORITY (33%) HAVE BEEN ACTIVELY INVOLVED FOR FIVE TO TEN YEARS. THE DESCRIPTIVE STATISTICS FOLLOWING THE FREQUENCY HISTOGRAMS IN APPENDIX D ARE NORMALLY INTENDED FOR INTERVAL-LEVEL MEASUREMENTS BUT WERE PROVIDED FOR INTEREST.

THE BI-MODAL RESPONSE TO QUESTION TWO ON THE NUMBER OF ARTICLES PUBLISHED IS INTERESTING. FIFTY-EIGHT PERCENTAGE HAD WRITTEN EITHER ONE ARTICLE OR GREATER THAN TEN. SIMILARLY THIRTY PERCENTAGE HAD AUTHORED ONE OR MORE BOOKS, WITH THE MAJORITY (31%) HAVING BEEN FIRST PUBLISHED FROM 1971 TO 1975.

ON THE QUESTION OF CONTACT OVER 44% OF THOSE RESPONDING HAD CONTACT WITH ONE OR MORE WARSAW PACT SCIENTISTS, WITH THE MAJORITY FROM THE SOVIET UNION. WHILE THIS PERCENTAGE WAS HIGHER THAN EXPECTED, IT IS DIFFICULT TO DETERMINE IF

THIS RATE IS HIGHER TO ANY SIGNIFICANCE FOR THIS AREA THAN ANOTHER ACADEMIC PURSUIT. IT IS REASONABLE TO ASSUME THAT THIS IS MERELY AN INDICATION OF THE DIFFICULTY FOR RESEARCHERS IN ANY COMMUNIST BLOC COUNTRY TO OBTAIN INFORMATION FROM WESTERN SOURCES. BY WRITING DIRECTLY TO AUTHORS OF ARTICLES WHICH DID FIND THEIR WAY INTO SOVIET SCIENTIST'S HANDS, THEY ARE ENHANCING THEIR KNOWLEDGE BY MEANS OTHERWISE UNAVAILABLE TO THEM. AS WILL BE POINTED OUT LATER THE MAJORITY OF THOSE IN "CONTACT" WERE REQUESTED BY POSTCARD OR LETTER TO SEND COPIES OF ARTICLES ON A GIVEN SUBJECT. IT IS IN THIS MANNER THAT THE REQUESTING SCIENTIST MAY HAVE A COPY OF WORK DONE, AS THERE ARE FEW PHOTOCOPYING MACHINES AVAILABLE.

THE NEXT QUESTION, NUMBER SEVEN, DEALING WITH THE PERIOD OF FIRST CONTACT WITH THE WARSAW PACT SCIENTIST, THE MAJORITY RESPONDED IN THE 1971-75 CATEGORY (41%). IN THE RESULTS OF CROSSTABULATION FOR THE PERIOD OF THE FIRST ARTICLE WITH WHEN THEY WERE IN FIRST CONTACT WITH THE WARSAW SCIENTIST, THE RESULTS WERE NOT SIGNIFICANT. THE ASSOCIATION BETWEEN THESE VARIABLES IS GREATER THAN THAT FOUND WHEN COMPARING THE PERIOD OF ACTIVE INVOLVEMENT AND WHEN THEY WERE IN FIRST CONTACT. THE DATA SUGGESTS THAT, OF THE TWO, THE PERIOD THAT THE FIRST ARTICLE WAS PUBLISHED HAD GREATER IMPORTANCE IN DETERMINING WHEN THE US SCIENTIST WAS FIRST CONTACTED. THE YEARS OF INVOLVEMENT HAD LESS TO DO WITH CONTACT BEING MADE THAN THE FIRST PUBLICATION OF HIS ARTICLE. THIS DETERMINATION WAS SIGNIFICANT TO THE 5% LEVEL. THE TABLE APPEARS ON THE FOLLOWING PAGE.<sup>9</sup>

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<sup>9</sup>COMPUTER-GENERATED TABLES REPRODUCED WITH PERMISSION FROM SPSS, INC.



		WFEA						ROW TOTAL
		1941-50	1951-60	1961-65	1966-70	1971-75	1976 ON	
ACTIVE	COUNT ROW PCT COL PCT TOT PCT	2	3	4	5	6	7	
>38 YEARS	1	C C.C C.C	0 0.0 0.0	2 50.0 33.3 6.1	1 25.0 25.0 3.0	0 0.0 0.0 0.0	1 25.0 12.5 3.0	12.1
BETWEEN 25-30 YR	3	1 25.0 100.0 3.0	1 25.0 100.0 3.0	2 50.0 33.3 6.1	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	12.1
BETWEEN 20-25 YR	7	0 0.0 0.0 0.0	0 0.0 0.0 0.0	3 33.3 16.7 3.0	0 0.0 0.0 0.0	2 66.7 15.4 6.1	0 0.0 0.0 0.0	9.1
BETWEEN 15-20 YR	5	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	2 25.0 20.0 6.1	6 75.0 46.2 18.2	0 0.0 0.0 0.0	24.2
BETWEEN 10-15 YR	6	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	1 33.3 25.0 3.0	1 33.3 7.7 3.0	1 33.3 12.5 3.0	9.1
BETWEEN 5-10 YRS	7	0 0.0 0.0 0.0	0 0.0 0.0 0.0	1 9.1 16.7 3.0	0 0.0 0.0 0.0	4 36.4 30.8 12.1	8 54.8 78.9 18.2	33.3
COLUMN TOTAL		3.0	3.0	18.2	12.1	39.4	24.2	100.0

$\chi^2 = 41.02$  DF=25 P=0.023 G=0.64

IN PERFORMING CROSSTABULATIONS BETWEEN THE NUMBER OF ARTICLES PUBLISHED AND THE PERIOD OF ACTIVE INVOLVEMENT THE RESULTS WERE SIGNIFICANT AT JUST BELOW THE 1% LEVEL. THIS IS NOT SURPRISING AS ONE WOULD EXPECT MORE ARTICLES FROM A VETERAN.

		ACTIVE						ROW TOTAL
		>38 YEAR	BETWEEN 25-30 YR	BETWEEN 20-25 YR	BETWEEN 15-20 YR	BETWEEN 10-15 YR	BETWEEN 5-10 YRS	
ARTICLES	COUNT ROW PCT COL PCT TOT PCT	1	3	4	5	6	7	
ONE	1	C C.C C.C	0 0.0 0.0	0 0.0 0.0	1 12.5 9.1 1.7	1 12.5 10.0 1.7	6 75.0 25.0 10.0	13.3
TWO	2	1 16.7 1.7	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	1 16.7 10.0 1.7	6 66.7 16.7 6.7	10.0
THREE	3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	4 100.0 16.7 6.7	6.7
FOUR	4	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	1 25.0 9.1 1.7	3 75.0 30.0 5.0	0 0.0 0.0 0.0	6.7
FIVE	5	1 20.0 1.7	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	4 80.0 16.7 6.7	8.3
SIX-10	6	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	3 42.9 27.3 5.0	0 0.0 0.0	4 57.1 16.7 6.7	11.7
>TEN	7	1 15.4 66.7 8.7	4 15.4 100.0 8.7	5 19.2 100.0 8.3	6 23.1 24.5 10.0	5 19.2 50.0 8.3	2 7.7 8.3 3.3	43.3
COLUMN TOTAL		10.0	6.7	8.3	11.7	10.0	24.2	60.0

$\chi^2 = 50.24$  DF=30 P=0.0117 G=0.627

SIMILARLY, IN ANALYZING THE NUMBER OF ARTICLES PUBLISHED WITH WARSAW PACT CONTACT AND BETWEEN YEARS ACTIVE IN THE FIELD AND CONTACT, THE DATA SUGGESTS THAT THE NUMBER OF ARTICLES PUBLISHED HAD A GREATER ROLE IN THE DETERMINATION OF WHETHER OR NOT CONTACT WAS MADE AS CAN BE SEEN BELOW.

ARTICLES	COUNT		CONTACT?		ROW TOTAL
	ROW	PCT	NO	YES, WITH	
	COL	PCT	0	1	
CNE	1		14	5	19
			73.7	26.3	25.0
			13.3	14.7	
			18.4	6.6	
TWO	2		7	2	9
			17.8	22.2	11.8
			16.7	5.6	
			5.2	2.6	
THREE	3		5	1	6
			83.3	16.7	7.9
			11.9	2.9	
			6.6	1.3	
FOUR	4		4	0	4
			100.0	0.0	5.3
			5.1	0.0	
			5.1	0.0	
FIVE	5		4	1	5
			80.0	20.0	6.6
			5.9	2.9	
			5.1	1.3	
6-10	6		2	5	7
			28.6	71.4	9.2
			4.6	14.7	
			2.6	6.6	
>TEN	7		6	20	26
			22.0	76.9	34.2
			14.3	58.8	
			7.9	26.3	
COLUMN TOTAL			42	34	76
			55.3	44.7	100.0

ACTIVE	COUNT		CONTACT?		ROW TOTAL
	ROW	PCT	NO	YES, WITH	
	COL	PCT	0	1	
>30 YEARS	1		2	4	6
			33.3	66.7	9.7
			11.1	11.8	
			3.2	6.5	
BETWEEN 25-30 YR	3		0	4	4
			0.0	100.0	6.5
			0.0	11.8	
			0.0	6.5	
BETWEEN 20-25 YR	4		3	3	6
			50.0	50.0	9.7
			10.7	8.8	
			4.8	4.8	
BETWEEN 15-20 YR	5		2	9	11
			18.2	81.8	17.7
			7.1	26.5	
			3.2	14.5	
BETWEEN 10-15 YR	6		7	3	10
			70.0	30.0	16.1
			25.6	8.8	
			11.3	4.8	
BETWEEN 5-10 YRS	7		14	11	25
			50.0	44.0	40.3
			20.0	32.4	
			6.6	17.7	
COLUMN TOTAL			28	34	62
			45.2	54.8	100.0

$$\chi^2 = 10.60 \text{ DF} = 5 \text{ P} = 0.060 \text{ GAMMA} = .37$$

$$\chi^2 = 23.75 \text{ DF} = 6 \text{ P} = 0.0006 \text{ GAMMA} = 0.61$$

FURTHER INVESTIGATION IS NEEDED HOWEVER, TO DETERMINE WHAT OTHER FACTORS PLAYED A PART IN THE US SCIENTIST BEING CONTACTED, SUCH AS MEMBERSHIP IN THE PARAPSYCHOLOGICAL ASSOCIATION OR HAVING A PAPER PRESENTED AT AN INTERNATIONAL MEETING.

UNDER THE CATEGORY OF BELIEVE, WHERE THE OPINION OF THE RESPONDENT WAS QUESTIONED AS TO HIS OR HER BELIEF THAT PSYCHIC PHENOMENA EXIST, THE OVERWHELMING MAJORITY (54%) STRONGLY AGREED WITH THE STATEMENT. IN REGROUPING RESPONDENTS INTO CATEGORIES OF BELIEVERS (SHEEP), NO OPINIONERS, AND DISBELIEVERS (GCATS) THE FREQUENCIES WERE: 82%, 4%, AND 14% RESPECTIVELY. THIS PERCENTAGE OF "SHEEP" WHETHER WHITE OR GREY, IS REMARKABLE CONSIDERING TWO OF THE MOST RECENT SURVEYS ON ESP ATTITUDES. IN A POLL BY A POPULAR ENGLISH

JOURNAL, NEW SCIENTIST [1972], 67% OF READERS SURVEYED WERE FAVORABLE TOWARD ESP AND ONLY 22% WERE NEGATIVE. IN A MORE RECENT STUDY<sup>10</sup> BY PROFESSOR MAHLON WAGNER AND MARY MONNET AT THE STATE UNIVERSITY OF NEW YORK, ATTITUDES TOWARD ESP WERE SIMILAR TO THOSE FOUND IN ENGLAND WITH 66% FAVORABLY DISPOSED AND 23% NEGATIVE. THAT STUDY SURVEYED A WIDE BACKGROUND OF SCHOLARS TEACHING AT VARIOUS CIVILIAN INSTITUTIONS. HOWEVER, IN A 1971 ARTICLE AUTHORED BY GERTRUDE R. SCHMEIDLER IN THE JOURNAL OF PARAPSYCHOLOGY, IT WAS DETERMINED THAT 90% OF THE COMBINED MEMBERS OF THE PARAPSYCHOLOGICAL ASSOCIATION AT THE TIME (N=22) AGREED THAT ESP WAS FIRMLY ESTABLISHED AND THAT FURTHER RESEARCH TO DETERMINE ITS EXISTENCE WOULD HAVE BEEN UNINTERESTING.<sup>11</sup> ONE COULD RIGHTFULLY EXPECT A HIGHER PERCENTAGE OF "SHEEP" FROM A COMMUNITY OF PARAPSYCHOLOGY-RELATED AUTHORS THAN FROM A SURVEY OF BROAD ACADEMIC BACKGROUNDS.

BY REGROUPING THE NUMBER OF ARTICLES PUBLISHED AT THE MEDIAN OF FOUR AND COMPARING THE TWO GROUPS WITH THE "SHEEP" AND "GOATS" IT WAS DETERMINED THAT NO ONE WHO HAD AUTHORED GREATER THAN FOUR ARTICLES ON PARAPSYCHOLOGY FELT THAT PSI DIDN'T EXIST.

ARTICLES	COUNT ROW COL TOT	BELIEVE							ROW TOTAL
		STRONGLY AGREE	MILDLY AGREE	A SOMEWHAT AGREE	NO OPINION	SOMEWHAT DISAGREE	MILDLY DISAGREE	STRONGLY DISAGREE	
ONE TO FOUR	1	12	10.4	23.7	7.9	5.3	7.9	13.5	38
		31.6	30.0	69.2	100.0	100.0	100.0	100.0	50.0
		18.6	3.2	11.8	3.9	2.6	3.9	6.6	
> FOUR	2	10	4	4	0	0	0	0	38
		78.9	30.5	10.5	0.0	0.0	0.0	0.0	50.0
		71.4	30.0	30.8	0.0	0.0	0.0	0.0	
		35.5	5.2	5.2	0.0	0.0	0.0	0.0	
COLUMN TOTAL		55.2	10.8	17.1	3.9	2.2	3.9	6.6	76
									100.0

$$\chi^2 = 22.64 \quad DF = 6 \quad P = 0.001 \quad GAMMA = 0.78$$

<sup>10</sup>MAHLON W. WAGNER AND MARY MONNET, "OBJECTIVITY IN SCIENCE AND ACADEME: PARAPSYCHOLOGY, A SURVEY," PAPER FROM THE STATE UNIVERSITY OF NEW YORK AT OSWEGO, 1978.

<sup>11</sup>GERTRUDE R. SCHMEIDLER, "PARAPSYCHOLOGISTS' OPINIONS ABOUT PARAPSYCHOLOGY, 1971," JOURNAL OF PARAPSYCHOLOGY, V. 35(3), SEPTEMBER 1971, PP. 208-213.



IN THE COMPARISON BETWEEN THOSE WHO HAD HAD CONTACT WITH THE WARSAW PACT SCIENTIST AND THE BELIEF SETS OF THE RESPONDENTS, THE FOLLOWING WAS FOUND. ONLY ONE OUT OF THE 35 RESPONDENTS WHO HAD MADE CONTACT WAS A "GOAT." OF THE 44% WHO INDICATED CONTACT, 97% WERE VARYING DEGREES OF "SHEEP" WHERE 28 OR 80% STRONGLY AGREED THAT PSI EXISTS. THIS WAS SIGNIFICANT TO THE 1% LEVEL.

CONTACT?	COUNT ROW PCT COL PCT TOT PCT	BELIEVE							ROW TOTAL
		STRONGLY AGREE	MILDLY A GREE	SOMEWHAT AGREE	NO OPIN ON	SOMEWHAT DISAGRE	MILDLY D ISAGREE	STRONGLY DISAGRE	
		1	2	3	4	5	6	7	
NO	0	15 34.1 34.9 19.0	6 13.6 66.7 7.6	10 22.7 78.9 12.7	3 6.8 100.0 3.8	2 4.5 100.0 2.5	4 9.1 100.0 5.1	4 9.1 90.7 5.1	44 55.7
YES, WITH ONE OR	1	28 80.0 65.1 35.4	3 8.6 33.3 3.8	3 8.6 23.1 3.8	0 0.0 0.0 0.0	0 0.0 0.0 0.0	0 0.0 0.0 0.0	1 2.3 20.0 1.3	35 44.3
		43 54.4	9 11.4	13 16.5	3 3.8	2 2.5	4 5.1	5 6.3	79 100.0

$$\chi^2 = 18.72 \quad DF = 6 \quad P = 0.005 \quad GAMMA = 0.72$$

AN ALMOST UNANIMOUS CONSENSUS WAS ACHIEVED ON THE NEXT STATEMENT REGARDING THE DEGREE OF INTEREST THE SOVIET UNION HAS IN PARAPSYCHOLOGY. THERE WAS LITTLE CORRELATION BETWEEN THOSE WHO HAD BEEN IN CONTACT AND THOSE RESPONDING TO THIS STATEMENT OR BETWEEN "SHEEP" AND "GOATS." HOWEVER, IN LOOKING AT JUST THE FREQUENCIES, OVER 87% STATED THAT THEY DISAGREED WITH THE STATEMENT THAT THE SOVIET UNION WAS NOT INTERESTED IN PSYCHIC PHENOMENA. JUST OVER ONE PERCENTAGE "SOMEWHAT" AGREED, WITH 12% NOT KNOWING OR GIVING NO OPINION. IT IS APPARENT FROM THE DATA THAT THE MAJORITY OF THOSE RESPONDING FELT THAT THE SOVIET UNION IS INDEED INTERESTED; NOT SURPRISING CONSIDERING THE AMOUNT OF PUBLICITY THEIR INTEREST HAS GENERATED IN THE PAST DECADE.

IN REGARD TO THE EXCHANGE OF INFORMATION BETWEEN THE US AND THE USSR A STRONG "SPIKE" EXISTED FOR THE "STRONGLY AGREE" RESPONSE (48%) WITH 79% OF THE TOTAL IN AGREEMENT AND 12% DISAGREEING. THERE WAS A STRONG PROPENSITY FOR BELIEVING "SHEEP" TO AGREE WITH GREATER EXCHANGE OF INFORMATION AS SHOWN ON THE FOLLOWING PAGE.

	COUNT ROW COL PCT PCT TOT TOT	EXCHANGE						ROW TOTAL
		STRONGLY AGREE	MILDLY AGREE	A SOMEWHAT AGREE	NO OPINI ON	SOMEWHAT DISAGRE	STRONGLY DISAGRE	
BELIEVE		1	2	3	4	5	7	
BELIEVE	1	3.6 50.0 46.4	6.6 9.4 69.7	1.3 20.2 86.7	2.2 3.1 29.6	1.6 1.3 100.0	6.6 5.4 75.8	64 83.1
NO OPINION	2	0.0 0.0 0.0	0.0 11.1 1.3	0.0 0.0 0.0	1.0 14.3 1.3	0.0 0.0 0.0	0.0 0.0 0.0	2 2.6
DISBELIEVE	3	1.1 5.7 1.3	2.2 18.2 2.6	2.2 13.2 13.3	4.4 26.4 5.2	0.0 0.0 0.0	2.2 18.2 2.6	11 14.3
COLUMN TOTAL		5.7 46.1	9.9 11.7	15.5 19.5	7.7 9.1	1.6 1.3	8.8 10.4	77 100.0

$$\chi^2 = 25.26 \quad DF = 10 \quad P = 0.005 \quad GAMMA = 0.59$$

A WEAKER LINK WAS EXHIBITED BETWEEN THOSE IN CONTACT WITH WARSAW PACT SCIENTISTS AND THOSE RESPONDING TO THE STATEMENT OF EXCHANGE, AS SHOWN IN THE NEXT TABLE.

	COUNT ROW COL PCT PCT TOT TOT	EXCHANGE						ROW TOTAL
		STRONGLY AGREE	MILDLY AGREE	A SOMEWHAT AGREE	NO OPINI ON	SOMEWHAT DISAGRE	STRONGLY DISAGRE	
CONTACT?		1	2	3	4	5	7	
NO	0	1.5 34.9 40.9 15.5	5.5 11.6 35.6 6.5	1.2 27.9 80.0 15.4	6.6 14.0 83.7 7.3	2.0 7.0 7.0	5.5 11.6 82.5 6.5	43 55.8
YES. WITH ONE OR	1	2.2 64.7 54.5 26.6	4.4 11.8 44.4 5.2	3.3 8.8 20.0 3.9	1.1 2.9 14.3 1.3	1.1 2.9 100.0 1.3	3.3 9.8 37.5 3.9	34 44.2
COLUMN TOTAL		3.7 48.1	9.9 11.7	15.5 19.5	7.7 9.1	1.6 1.3	8.8 10.4	77 100.0

$$\chi^2 = 11.01 \quad DF = 5 \quad P = 0.05 \quad GAMMA = -0.42$$

SIMILAR TO THE SOVIET INTEREST STATEMENT, THE STATEMENT THAT WARSAW PACT SCIENTISTS OPENLY DISCUSS EXPERIMENTS WAS MET WITH STRONG (60%) DISAGREEMENT, 33% NOT KNOWING OR HAVING NO OPINION AND THE REMAINDER AGREEING. AS CAN BE SEEN BELOW ONLY 5% OF THOSE WHO HAD RESPONDED FELT THAT THE SCIENTISTS DID OPENLY DISCUSS EXPERIMENTS. OF THOSE DISAGREEING, 43% HAD NOT HAD CONTACT, WHEREAS 57% HAD HAD CONTACT.

	COUNT ROW COL PCT PCT TOT TOT	DISCUSS						ROW TOTAL
		STRONGLY AGREE	MILDLY AGREE	NO OPINI ON	SOMEWHAT DISAGRE	MILDLY DISAGRE	STRONGLY DISAGRE	
CONTACT?		1	2	4	5	6	7	
NO	0	1.1 2.4 25.0 1.3	2.2 4.8 66.7 2.6	2.0 47.6 80.0 26.3	3.3 7.1 75.0 3.9	8.8 19.0 57.1 17.5	8.8 19.0 30.4 10.5	43 55.3
YES. WITH ONE OR	1	3.3 8.8 75.0 3.9	1.1 2.9 33.3 1.3	5.5 14.7 20.0 6.6	1.1 2.9 25.0 1.3	6.6 17.6 46.9 7.9	18.2 52.0 86.2 23.7	34 44.7
COLUMN TOTAL		4.4 5.3	3.3 3.9	25.5 32.9	4.4 5.3	14.4 18.4	26.6 34.2	77 100.0

$$\chi^2 = 14.79 \quad DF = 5 \quad P = 0.0113 \quad GAMMA = 0.43$$

WHEN ASKED TO GIVE AN OPINION ON THE POSITIVE STATEMENT THAT THE USSR IS PROGRESSING LOGICALLY IN THE STUDY OF PARAPSYCHOLOGY THERE WAS LITTLE AGREEMENT. TWENTY-SIX PERCENTAGE AGREED WITH 20% DISAGREEING AND 54% NOT KNOWING OR NOT HAVING AN OPINION. NO CROSSTABULATIONS COULD ACCOUNT FOR THIS TO ANY SIGNIFICANCE. HOWEVER, IT SHOULD BE POINTED OUT THAT NEARLY TWICE AS MANY "BELIEVERS" AGREED WITH THE STATEMENT OF SOVIET PROGRESS THAN THOSE DISAGREEING WITH IT. IT APPEARS THAT MANY OF THE RESPONDENTS ARE UNAWARE OF THE METHODS OF RESEARCH BEING CARRIED OUT IN THE SOVIET UNION. FURTHER RESEARCH IS NEEDED BUT WITH THE RATHER INCONSISTENT RESULTS RECEIVED TO DATE, IT MAY BE THAT NO ONE IS SURE WHAT THE LOGICAL APPROACH IS TO PARAPSYCHOLOGY. IT IS SUSPECTED THAT THIS TOPIC OF CURRENT DEBATE WILL EVENTUALLY BE SOLVED BY THE "20/20 HINDSIGHT" METHOD.

THIS NEXT STATEMENT GAVE SOME HEAVILY WEIGHTED RESULTS. IN RESPONSE TO THE NEGATIVELY WORDED STATEMENT THAT THE USSR WOULD NOT USE PSI ABILITIES ON THE UNITED STATES AND OTHERS SHOULD THEY DEVELOP THE CAPABILITY THE RESULTS WERE AS FOLLOWS: 48% STRONGLY DISAGREED, 16% MILDLY DISAGREED, AND 3% SOMEWHAT DISAGREED (TOTAL OF 69%), WHILE 5% STRONGLY AGREED AND 1% SOMEWHAT AGREED (6%). WHILE THERE WAS LITTLE CORRELATION BETWEEN THE "SHEEP" AND THE "GOATS" FIVE OUT OF THE ELEVEN DISBELIEVERS (45%) DISAGREED WITH THE STATEMENT, WHEREAS 49 OUT OF THE 64 BELIEVERS (76%) DISAGREED. SIMILARLY, 26 OUT OF 42 OR 62% OF THOSE WHO DID NOT HAVE CONTACT WITH A WARSAW PACT SCIENTIST DISAGREED AND 27 OUT OF 35 WHO HAD HAD CONTACT (77%) DISAGREED. THEREFORE, THOSE BELIEVING THAT THE PHENOMENA EXIST AND THOSE HAVING HAD CONTACT TEND TO BELIEVE THAT THE SOVIET UNION WOULD NOT HESITATE TO USE PSI ABILITIES IF THEY DEVELOPED THE CAPABILITY.

IN A SIMILAR STUDY AT THE UNIVERSITY OF CALIFORNIA AT DAVIS REGARDING THE POTENTIAL NEGATIVE USES OF PSI, DR. CHARLES T. TART POLLED 13 FULL MEMBERS OF THE PARAPSYCHOLOGICAL ASSOCIATION WHO HAD BEEN ACTIVELY WORKING AND PUBLISHING IN THE FIELD FOR THE LAST FIVE YEARS. IN HIS

FIRST QUESTION:

"HOW STRONGLY DO YOU BELIEVE THAT PSI ABILITIES MIGHT POTENTIALLY BE USED IN THE FUTURE IN A PRACTICALLY USEFUL WAY FOR ESPIONAGE AND MILITARY INTELLIGENCE ACTIVITIES?"<sup>12</sup>

HE ASSUMED VERY LARGE AMOUNTS OF MONEY AND SCIENTIFIC MAN-POWER. THE RESPONSE CATEGORIES WERE "IMPOSSIBLE," "UNLIKELY," "POSSIBLE," "LIKELY," AND "CERTAIN." OF THE 13 RESPONDENTS, NO ONE CONSIDERED THAT USE IMPOSSIBLE OR UNLIKELY. FOUR CONSIDERED IT POSSIBLE, FIVE LIKELY, AND THE REMAINING FOUR CONSIDERED IT CERTAIN. NO MENTION OF "WHO" WOULD BE LIKELY TO USE PSI ABILITIES, SO ONE MUST ASSUME POSSIBLE USE BY THOSE WITH THE CAPABILITY.

IT APPEARS THAT ACCORDING TO TWO SEPARATE SOURCES OF INFORMATION, EXPERTS GENERALLY BELIEVE THAT AT LEAST SOME MILITARY APPLICATIONS MAY BE POSSIBLE IN THE FUTURE.

IN RESPONSE TO THE DECLASSIFIED DIA DOCUMENT DST-1810S-387-75, "SOVIET AND CZECHOSLOVAKIAN PARAPSYCHOLOGY RESEARCH" WHERE A STATEMENT WAS MADE THAT THE SOVIET UNION COULD DEVELOP "PSYCHIC WEAPONS" WITHIN TEN YEARS, THE FOLLOWING STATEMENT WAS POSED TO THE RESPONDENTS. "THE WARSAW PACT NATIONS WILL HAVE THE CAPABILITY OF USING PARAPSYCHOLOGY TO THEIR ADVANTAGE WITHIN 10 YEARS." WHILE THE MAJORITY OF 31 (41%) GAVE NO OPINION OR DIDN'T KNOW, 25% AGREED TO VARYING DEGREES AND 34% DISAGREED, MOSTLY "STRONGLY." IN ADDITION, THERE WAS A STRONG CORRELATION BETWEEN THE "SHEEP" AND "GOATS," WHERE THE CHI SQUARE ACHIEVED WAS SIGNIFICANT TO THE 1% LEVEL. ONLY 22% OF THE "BELIEVERS" DISAGREED WITH THE STATEMENT AND 30% OF THEM AGREED. ALL ELEVEN OF THE "GOATS" DISAGREED WITH THE STATEMENT. THE BREAKDOWN APPEARS ON THE FOLLOWING PAGE.

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<sup>12</sup>CHARLES T. TART, "A SURVEY OF EXPERT OPINION ON POTENTIALLY NEGATIVE USES OF PSI, U.S. GOVERNMENT INTEREST IN PSI AND THE LEVEL OF RESEARCH FUNDING OF THE FIELD," PAPER PRESENTED AT 1978 ANNUAL MEETING OF THE PARAPSYCHOLOGICAL ASSOCIATION, ST. LOUIS, 9-12 AUGUST 1978.



	COUNT ROW PCT COL PCT TOT PCT	WFOAPE							ROW TOTAL
		STRONGLY AGREE 1	MILDLY AGREE 2	SOMEWHAT AGREE 3	NO OPINI ON 4	SOMEWHAT DISAGRE 5	MILDLY DISAGREE 6	STRONGLY DISAGRE 7	
BELIEVE	1	4 100.0 100.0	7 11.1 7.2	8 12.7 10.5	30 47.6 56.8 39.5	5 7.9 8.6	3 4.8 3.9	6 9.5 7.9	63 82.9
NO OPINION	2	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	1 1.6 1.5	0 0.0 0.0	0 0.0 0.0	1 1.5 1.3	2 2.6
DISBELIEVE	3	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	1 1.6 1.3	1 1.6 1.3	9 14.3 11.8	11 14.5
COLUMN TOTAL		4 5.2	7 9.2	8 10.5	31 40.8	6 7.9	4 5.3	16 21.1	76 100.0

$$\chi^2 = 33.86 \quad DF = 12 \quad P = 0.0007 \quad GAMMA = 0.92$$

ANOTHER STRONG "NO OPINION" RESPONSE CAME FROM THE STATEMENT THAT THE UNITED STATES HAS THE LEAD IN THE STUDY OF PARAPSYCHOLOGY. ALMOST 44% STATED "NO OPINION" OR DIDN'T KNOW WHILE 34% AGREED AND 22% DISAGREED. AS CAN BE SEEN BELOW, THE LARGEST PORTION RESPONDING "NO OPINION" TO THE STATEMENT OF US LEAD, HAD THE GREATEST AMOUNT OF OPINION TO A PREVIOUS STATEMENT OF LOGICAL US PROGRESS IN PSI.

	COUNT ROW PCT COL PCT TOT PCT	USFROG							ROW TOTAL
		STRONGLY AGREE 1	MILDLY AGREE 2	SOMEWHAT AGREE 3	NO OPINI ON 4	SOMEWHAT DISAGRE 5	MILDLY DISAGRE 6	STRONGLY DISAGRE 7	
STRONGLY AGREE	1	2 23.0 2.7	1 10.0 7.7	1 10.0 10.0	3 30.0 33.3 3.9	1 10.0 20.0 1.3	1 10.0 7.7	1 10.0 4.3 1.3	10 13.2
MILDLY AGREE	2	0 0.0 0.0	3 45.0 34.3 6.6	2 20.0 20.0 2.6	0 0.0 0.0	0 0.0 0.0	1 10.0 7.7 1.3	3 30.0 13.0 3.9	11 14.5
SOMEWHAT AGREE	3	0 0.0 0.0	0 0.0 0.0	2 20.0 20.0 2.6	0 0.0 0.0	1 10.0 20.0 1.3	1 10.0 7.7 1.3	1 10.0 4.3 1.3	5 6.6
NO OPINION	4	0 0.0 0.0	2 21.7 53.2 4.2	4 40.0 40.0 5.3	5 50.0 55.6 8.6	3 30.0 60.0 3.9	6 60.0 46.2 7.5	8 80.0 34.0 10.5	33 43.4
SOMEWHAT DISAGRE	5	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	2 20.0 8.7 2.6	2 2.6
MILDLY DISAGREE	6	0 0.0 0.0	0 0.0 0.0	0 0.0 0.0	1 10.0 11.1 1.5	0 0.0 0.0	2 20.0 15.4 2.6	3 30.0 13.0 3.9	6 7.9
STRONGLY DISAGRE	7	1 11.1 1.3	0 0.0 0.0	1 10.0 10.0 1.3	0 0.0 0.0	0 0.0 0.0	2 20.0 15.4 2.6	5 50.0 21.7 6.6	11 14.5
COLUMN TOTAL		3 3.9	13 17.1	10 13.2	9 11.8	5 6.6	13 17.1	23 30.3	76 100.0

$$\chi^2 = 43.75 \quad DF = 36 \quad P = 0.1756 \quad GAMMA = 0.37$$

AS COULD HAVE BEEN EXPECTED, WHEN EXAMINING THOSE WHO HAD WRITTEN FIVE OR MORE ARTICLES TENDED TO BELIEVE THAT THE US HAS THE LEAD IN THOSE STUDIES. TWENTY-ONE OR 29% OF THE RESPONDENTS FELL INTO THIS CATEGORY OF FIVE OR MORE ARTICLES AND BELIEVING THAT THE US LEADS, SIGNIFICANT BEYOND THE 1% LEVEL.

ARTICLES	COUNT N PCT TOT PCT	US LEAD							ROW TOTAL
		STRONGLY AGREE 1	MILDLY AGREE 2	SOMEWHAT AGREE 3	NO OPINI ON 4	SOMEWHAT DISAGRE 5	MILDLY DISAGRE 6	STRONGLY DISAGRE 7	
ONE TO FOUR	1	2 20.0 2.7	2 5.6 2.7	1 2.6 1.4	22 61.1 71.0 30.1	1 2.8 1.4	5 13.9 83.3 6.8	3 8.3 33.3 4.1	36 49.3
> FOUR	2	8 21.0 24.0 11.0	5 24.3 23.8 13.3	4 10.8 30.0 5.5	9 24.3 33.0 12.3	0 0.0 0.0 0.0	1 2.7 16.7 1.4	6 16.2 68.7 8.2	37 50.7
COLUMN TOTAL		10 13.7	11 15.1	5 6.8	31 42.5	1 1.4	6 8.2	9 12.3	73 100.0

$$\chi^2 = 19.96 \quad DF = 6 \quad P = 0.003 \quad GAMMA = -0.43$$

ON THE ISSUE OF WHETHER OR NOT THE US SHOULD USE PSI ABILITIES ON WARSAW PACT NATIONS IF WE DEVELOPED THE CAPABILITY, THE NEGATIVELY WORDED STATEMENT THAT WE SHOULDN'T USE IT GAVE THE FOLLOWING RESULTS. TWENTY-FIVE PERCENTAGE STRONGLY AGREED WITH A TOTAL OF 42% AGREEING AND 40% DISAGREEING, FAIRLY EVEN. WHEN TABULATED AGAINST THE STATEMENT THAT THE SOVIET UNION WOULDN'T USE PSI ABILITIES ON WESTERN NATIONS, IT DEVELOPS A SKEW. NINETEEN OF 76 RESPONDENTS (25%) STATED THAT WHILE THEY THOUGHT THAT THE US SHOULDN'T USE PSI THEY FELT THAT THE SOVIET UNION WOULD. THOSE 29 (37%) STATING THAT THE US SHOULD USE PSI ALSO FELT THAT THE USSR WOULD, IF EITHER DEVELOPED THE CAPABILITY. ONLY FIVE PERCENTAGE BELIEVED IN THE PSYCHIC EQUIVALENT TO "MUTUAL ASSURED DESTRUCTION" BY STATING THAT THE US "SHOULDN'T" AND THE USSR "WOULDN'T." THE BALANCE WERE "NO OPINIONS" ON ONE OR BOTH VARIABLES. NO ONE FELT THAT THE US "SHOULD" YET THE SOVIETS "WOULDN'T."

SOME VERY STRONGLY BIASED RETURNS WERE NOTED ON THE FINAL STATEMENT THAT THE UNITED STATES GOVERNMENT SHOULD BECOME INVOLVED IN THE STUDY OF PARAPSYCHOLOGY. FIFTY-SIX PERCENTAGE "STRONGLY" AGREED WITH A TOTAL OF 83% AGREEING TO

VARYING DEGREES AND 15% DISAGREEING. ONLY ONE RESPONDENT DIDN'T HAVE AN OPINION. THE TWO TABLES BELOW REENFORCE THOSE BELIEFS. IN CROSSTABULATION BETWEEN THE "SHEEP" AND "GOATS" THE DATA SUGGESTS A STRONG RELATIONSHIP WELL BEYOND THE 1% LEVEL OF SIGNIFICANCE.

	COUNT ROW PCT COL PCT TOT PCT	USINVOL							ROW TOTAL
		STRONGLY AGREE 1	MILDLY AGREE 2	A SOMEWHAT AGREE 3	NO OPINI ON 4	SOMEWHAT DISAGRE 5	MILDLY DISAGRE 6	STRONGLY DISAGRE 7	
BELIEVE	1	42	5	12	0	2	1	2	65
BELIEVE		66.2	7.7	18.8	0.0	3.1	1.5	3.1	83.3
		55.1	100.0	66.7	0.0	40.0	100.0	33.3	
			11.5	10.3	0.0	2.6	1.3	2.6	
NO OPINION	2	0	0	50	50	0	0	0	2
NO OPINION		0.0	0.0	3.3	50.0	0.0	0.0	0.0	2.6
		0.0	0.0	1.3	100.0	0.0	0.0	0.0	
		0.0	0.0	1.3	1.3	0.0	0.0	0.0	
DISBELIEVE	3	1	0	27	0	3	0	4	11
DISBELIEVE		1.5	0.0	27.3	0.0	27.3	0.0	36.4	14.1
		2.3	0.0	25.0	0.0	60.0	0.0	66.7	
		1.5	0.0	3.8	0.0	3.8	0.0	5.1	
COLUMN TOTAL		44	9	12	1	5	1	7	78
		56.4	11.5	15.4	1.3	6.4	1.3	7.7	100.0

$$\chi^2 = 71.99 \quad DF = 12 \quad P < 0.0001 \quad \text{GAMMA} = 0.64$$

A SIMILAR RELATIONSHIP EXISTED FOR THOSE HAVING HAD CONTACT WITH WARSAW PACT SCIENTISTS AS SEEN BELOW.

	COUNT ROW PCT COL PCT TOT PCT	USINVOL							ROW TOTAL
		STRONGLY AGREE 1	MILDLY AGREE 2	A SOMEWHAT AGREE 3	NO OPINI ON 4	SOMEWHAT DISAGRE 5	MILDLY DISAGRE 6	STRONGLY DISAGRE 7	
CONTACT?	0	13	7	11	1	4	2	5	43
NO		30.2	16.3	25.6	2.3	9.3	2.3	14.5	55.1
		29.5	77.8	91.7	100.0	80.0	100.0	100.0	
		16.7	9.0	14.1	1.3	5.1	1.3	7.7	
YES, WITH ONE OR	1	31	2	1	0	1	0	0	35
YES, WITH ONE OR		86.6	5.7	3.9	0.0	2.9	0.0	0.0	44.9
		70.8	22.2	9.3	0.0	20.0	0.0	0.0	
		39.7	2.6	1.3	0.0	1.3	0.0	0.0	
COLUMN TOTAL		44	9	12	1	5	1	7	78
		56.4	11.5	15.4	1.3	6.4	1.3	7.7	100.0

$$\chi^2 = 27.75 \quad DF = 6 \quad P = 0.0001 \quad \text{GAMMA} = -0.86$$

FOR THE FINAL SECTION, THE FREQUENCIES OF THE SUBJECT OF INFORMATION THAT WAS REQUESTED OR EXCHANGED IS PRESENTED. APPENDIX E SHOWS THE BREAKDOWN OF THE REQUESTS AND EXCHANGES THAT THE RESPONDENTS COMPLETED. THOSE SUBJECTS ON THE QUESTIONNAIRE RECEIVING A TOTAL OF THREE OR LESS WERE NOT INCLUDED IN THE CHART. RESPONSES CODED "FOUR" WHERE INFORMATION WAS ONLY REQUESTED BY THEM AND GIVEN BUT NOT RECEIVED IN RETURN HAD THE HIGHEST RESPONSE RATE. THE SECOND HIGHEST, CODED "SIX" INDICATED THAT THEY HAD REQUESTED INFORMATION,

RECEIVED IT AND RETURNED INFORMATION IN RETURN. (THE ACTUAL SEQUENCE NOT KNOWN). THE DATA SHOWS THAT THEIR "OFFICIALLY" SANCTIONED STUDIES OF CLAIRVYANCE, PSYCHOKINESIS, TELEPATHY PRECOGNITION, PSYCHIC HEALING AND PSYCHIC PHOTOGRAPHY RANK HIGH AMONG THE REQUESTS AND EXCHANGES. ONE AREA THAT HAS SOME OF THE GREATEST POTENTIAL FOR ESPIONAGE, THAT OF REMOTE VIEWING OR OBE, SHOWS NO RECEIPTS OF INFORMATION FROM ANY WARSAW PACT NATION, ONLY REQUESTS.

SEVERAL COMMENTS RECEIVED INDICATED A FRUSTRATION ON THE PART OF THE US RESEARCHER AS HE OR SHE HAD RECEIVED LITTLE OR NO COOPERATION IN OBTAINING INFORMATION FROM THEIR SOVIET COUNTERPARTS. THIS CAN BEEN SEEN IN THE DATA. PERHAPS SOMEONE MAY DRAW SOME OTHER CONCLUSIONS OR INFERENCES FROM THIS SET OF DATA.



## APPENDIX A - THE QUESTIONNAIRE

### NAVAL POSTGRADUATE SCHOOL

Monterey, California 93940

This questionnaire is part of a thesis survey being conducted by LT James D. Bray, USN at the Naval Postgraduate School as partial fulfillment of the requirements for the degree of Master of Arts in National Security Affairs.

The purpose of this study is to ascertain the subjects, frequency and degree of information exchanged between U.S. and Warsaw Pact scientists concerning the field of parapsychology and thereby produce an independent and objective evaluation of the magnitude of interest generated in this field. By polling you and approximately 200 of your colleagues who have similarly authored articles or books on this field, an assessment can be made on how much and how often information is being exchanged on this highly controversial subject.

The term parapsychology, as used here, refers to the statistical, psychological and physiological aspects of unusual (paranormal) mental perception or influence between living organisms and the surrounding environment without the mediation of the known sense organs or of presently identified energy-transfer mechanisms.

Therefore, it is vital to the completion of this thesis that you take a few minutes of your time to complete this questionnaire and ensure that the results will be representative and significant.

What you answer to any question will be kept STRICTLY CONFIDENTIAL and will be handled as privileged information. DO NOT SIGN YOUR NAME. Completed questionnaires will be tabulated and analyzed by the candidate and only summaries will be reviewed in providing the needed information.

Will you please mail the completed questionnaire in the attached envelope within a week? If you desire a copy of the results, write your name and address on a separate piece of paper and either include it in the envelope or send it under separate cover.

Thank you for your assistance.

James D. Bray

LT James D Bray Code 53 Louise  
Naval Postgraduate School  
Monterey, CA 93940

Please indicate your major area of parapsychology interest \_\_\_\_\_

OF THE FOLLOWING QUESTIONS CHECK THE BOX THAT MOST APPLIES. IF IT DOES NOT APPLY, LEAVE IT BLANK.

1. During what period have you been actively involved in parapsychology? (CHECK AS MANY AS APPLY)  
☒/Before 1940 ☒/1941-50 ☒/1951-60 ☒/1961-65 ☒/1966-70  
☒/1971-75 ☒/1976-present
2. How many articles have you had published that dealt with some aspect of parapsychology?  
☒/None ☒/One ☒/Two ☒/Three ☒/Four ☒/Five ☒/6-10 ☒/ >10
3. How many books have you had published that dealt primarily with parapsychology?  
☒/None ☒/One ☒/Two ☒/Three ☒/Four ☒/ >Four
4. When was your first article or book published?  
☒/Before 1940 ☒/1941-50 ☒/1951-60 ☒/1961-65 ☒/1966-70  
☒/1971-75 ☒/1976-present
5. What is the source of your knowledge in parapsychology?  
☒/Formal study ☒/Layman pubs/newspapers ☒/Personal scientific experimentation ☒/Books by parapsychologists ☒/Scientific journals ☒/Other \_\_\_\_\_
6. Have you ever been in contact (in person or by correspondence or phone) and discussed any aspect of parapsychology with any citizen or scientist of a Warsaw Pact country? (CHECK AS MANY AS APPLY)  
☒/No ☒/Yes, Soviet Union ☒/Czechoslovakia ☒/Bulgaria  
☒/Poland ☒/East Germany ☒/Other \_\_\_\_\_
7. Referring to the question above, when were you in contact with them? (CHECK AS MANY AS APPLY)  
☒/Before 1940 ☒/1941-50 ☒/1951-60 ☒/1961-65 ☒/1966-70  
☒/1971-75 ☒/1976-present

PLEASE ANSWER THE FOLLOWING QUESTIONS TO THE BEST OF YOUR BELIEF.  
PLACE THE NUMBER THAT CORRESPONDS TO YOUR ANSWER IN THE BOX AT  
THE RIGHT OF THE QUESTION.

---

STRONGLY AGREE = 1, MILDLY AGREE = 2, SOMEWHAT AGREE = 3,  
NO OPINION = 4, SOMEWHAT DISAGREE = 5, MILDLY DISAGREE = 6,  
STRONGLY DISAGREE = 7

---

8. I believe that psychic phenomena (in general) exist  
and it is only a matter of time before consistent  
positive results can be obtained. ☐
9. The Soviet government is not interested in the  
field of parapsychology. ☐
10. The Warsaw Pact nations and the U.S. should exchange  
more information on experimental findings in this field. ☐
11. Warsaw Pact scientists freely and openly discuss all  
aspects and findings obtained through scientific  
experimentation. ☐
12. The U.S. is progressing in a logical and reasonable  
manner in obtaining reliable experimental results. ☐
13. The Soviet Union is progressing in a logical and  
reasonable manner in obtaining reliable experimental  
results. ☐
14. The Soviet government would not use parapsychology/  
psychic means to their advantage over the U.S. and  
others, should they develop the capability. ☐
15. The Warsaw Pact nations will have the capability of  
using parapsychology to their advantage within 10 years. ☐
16. The U.S. has the lead in the study of parapsychology. ☐
17. The U.S. should not use parapsychology/psychic means  
to our advantage over the USSR and others, should we  
develop the capability. ☐
18. The U.S. government should allocate resources and  
become involved in the study of parapsychology. ☐

OF THE FINAL THREE QUESTIONS, PLEASE CHECK ALL ITEMS THAT RELATE  
TO PARAPSYCHOLOGY RELATIVE TO THE INFORMATION EXCHANGED OR REQUESTED  
BY WARSAW PACT CITIZENS/SCIENTISTS DURING THE PERIOD OF CONTACT.  
(PLEASE ANSWER ONE QUESTION AT A TIME)

19. What was the nature or subject of information requested by them?

20. What was the nature or subject of information given to them?

21. What was the nature or subject of information received from them?

REQ.	GVN.	RCVD.		REQ.	GVN.	RCVD.	
<input type="checkbox"/> 01	<input type="checkbox"/> 01	<input type="checkbox"/> 01	Myotransfer	<input type="checkbox"/> 29	<input type="checkbox"/> 29	<input type="checkbox"/> 29	Psychic Photography
<input type="checkbox"/> 02	<input type="checkbox"/> 02	<input type="checkbox"/> 02	Bioplasma	<input type="checkbox"/> 30	<input type="checkbox"/> 30	<input type="checkbox"/> 30	Psychokinesis (PK)
<input type="checkbox"/> 03	<input type="checkbox"/> 03	<input type="checkbox"/> 03	Clairvoyance	<input type="checkbox"/> 31	<input type="checkbox"/> 31	<input type="checkbox"/> 31	Biological Communications
<input type="checkbox"/> 04	<input type="checkbox"/> 04	<input type="checkbox"/> 04	Electromagnetics	<input type="checkbox"/> 32	<input type="checkbox"/> 32	<input type="checkbox"/> 32	UFO's
<input type="checkbox"/> 05	<input type="checkbox"/> 05	<input type="checkbox"/> 05	EEG	<input type="checkbox"/> 33	<input type="checkbox"/> 33	<input type="checkbox"/> 33	Neuromuscular Response
<input type="checkbox"/> 06	<input type="checkbox"/> 06	<input type="checkbox"/> 06	Kirlian Photography	<input type="checkbox"/> 34	<input type="checkbox"/> 34	<input type="checkbox"/> 34	General Psychology
<input type="checkbox"/> 07	<input type="checkbox"/> 07	<input type="checkbox"/> 07	Thought Control	<input type="checkbox"/> 35	<input type="checkbox"/> 35	<input type="checkbox"/> 35	Psychotronic Generators
<input type="checkbox"/> 08	<input type="checkbox"/> 08	<input type="checkbox"/> 08	Physiology	<input type="checkbox"/> 36	<input type="checkbox"/> 36	<input type="checkbox"/> 36	Subliminal Suggestion
<input type="checkbox"/> 09	<input type="checkbox"/> 09	<input type="checkbox"/> 09	General ESP (GESP)	<input type="checkbox"/> 37	<input type="checkbox"/> 37	<input type="checkbox"/> 37	Research Centers
<input type="checkbox"/> 10	<input type="checkbox"/> 10	<input type="checkbox"/> 10	Quantum Physics	<input type="checkbox"/> 38	<input type="checkbox"/> 38	<input type="checkbox"/> 38	Military Aspects/Information
<input type="checkbox"/> 11	<input type="checkbox"/> 11	<input type="checkbox"/> 11	Cybernetics	<input type="checkbox"/> 39	<input type="checkbox"/> 39	<input type="checkbox"/> 39	Political Considerations
<input type="checkbox"/> 12	<input type="checkbox"/> 12	<input type="checkbox"/> 12	Dowsing (Biophysical Effects, BPE)				
<input type="checkbox"/> 13	<input type="checkbox"/> 13	<input type="checkbox"/> 13	Radionics	<input type="checkbox"/> 40	<input type="checkbox"/> 40	<input type="checkbox"/> 40	Theoretical Concepts
<input type="checkbox"/> 14	<input type="checkbox"/> 14	<input type="checkbox"/> 14	Precognition	<input type="checkbox"/> 41	<input type="checkbox"/> 41	<input type="checkbox"/> 41	Experimental Results
<input type="checkbox"/> 15	<input type="checkbox"/> 15	<input type="checkbox"/> 15	Galvanic Skin Response (GSR)				
<input type="checkbox"/> 16	<input type="checkbox"/> 16	<input type="checkbox"/> 16	Low Frequency Waves (ELF, VLF)				
<input type="checkbox"/> 17	<input type="checkbox"/> 17	<input type="checkbox"/> 17	Psychic Healing/Surgery	<input type="checkbox"/> 42	<input type="checkbox"/> 42	<input type="checkbox"/> 42	Quantitative Information
<input type="checkbox"/> 18	<input type="checkbox"/> 18	<input type="checkbox"/> 18	Mitogenic Radiation	<input type="checkbox"/> 43	<input type="checkbox"/> 43	<input type="checkbox"/> 43	Qualitative Information
<input type="checkbox"/> 19	<input type="checkbox"/> 19	<input type="checkbox"/> 19	Gravitation/Gravimetrics	<input type="checkbox"/> 44	<input type="checkbox"/> 44	<input type="checkbox"/> 44	Practical Applications
<input type="checkbox"/> 20	<input type="checkbox"/> 20	<input type="checkbox"/> 20	Autogenic Training	<input type="checkbox"/> 45	<input type="checkbox"/> 45	<input type="checkbox"/> 45	Current Research Techniques
<input type="checkbox"/> 21	<input type="checkbox"/> 21	<input type="checkbox"/> 21	Hypnosis	<input type="checkbox"/> 46	<input type="checkbox"/> 46	<input type="checkbox"/> 46	Religious Philosophy
<input type="checkbox"/> 22	<input type="checkbox"/> 22	<input type="checkbox"/> 22	Remote Viewing (Out of Body, OBE)				
<input type="checkbox"/> 23	<input type="checkbox"/> 23	<input type="checkbox"/> 23	Plethysmograph	<input type="checkbox"/> 47	<input type="checkbox"/> 47	<input type="checkbox"/> 47	Historical Information
<input type="checkbox"/> 24	<input type="checkbox"/> 24	<input type="checkbox"/> 24	Sensory Shielding	<input type="checkbox"/> 48	<input type="checkbox"/> 48	<input type="checkbox"/> 48	Budgetary Information
<input type="checkbox"/> 25	<input type="checkbox"/> 25	<input type="checkbox"/> 25	Psychomotor Response	<input type="checkbox"/> 49	<input type="checkbox"/> 49	<input type="checkbox"/> 49	Research Personalities
<input type="checkbox"/> 26	<input type="checkbox"/> 26	<input type="checkbox"/> 26	Telepathy	<input type="checkbox"/> 50	<input type="checkbox"/> 50	<input type="checkbox"/> 50	Bibliographies
<input type="checkbox"/> 27	<input type="checkbox"/> 27	<input type="checkbox"/> 27	Subliminal Ideomotor Response (SIR)				
<input type="checkbox"/> 28	<input type="checkbox"/> 28	<input type="checkbox"/> 28	Dermo-optics/Dermal Vis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other _____
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other _____



YOUR COMMENTS AND/OR RECOMMENDATIONS CONCERNING THIS QUESTIONNAIRE WOULD BE GREATLY APPRECIATED. ANY ADDITIONAL INFORMATION SUCH AS NAMES AND/OR ADDRESSES OF FOREIGN (I.E. SOVIET/CZECH) PERSONALITIES OR RESEARCH CENTERS WOULD GREATLY AID IN THIS RESEARCH.

Name: \_\_\_\_\_ Name: \_\_\_\_\_

Position: \_\_\_\_\_ Position: \_\_\_\_\_

Address: \_\_\_\_\_ Address: \_\_\_\_\_

Name: \_\_\_\_\_ Name: \_\_\_\_\_

Position: \_\_\_\_\_ Position: \_\_\_\_\_

Address: \_\_\_\_\_ Address: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

\_\_\_\_\_  
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\_\_\_\_\_

APPENDIX B - SOURCE PERIODICALS

OVER 75% OF THE NAMES CAME FROM THE FOLLOWING PERIODICALS:

JOURNAL OF THE AMERICAN SOCIETY FOR PSYCHICAL RESEARCH  
JOURNAL OF PARAPSYCHOLOGY  
JOURNAL OF THE SOCIETY FOR PSYCHICAL RESEARCH  
PARAPSYCHOLOGY REVIEW

NEARLY 18% WERE FROM THE FOLLOWING:

PROCEEDINGS OF THE SOCIETY FOR PSYCHICAL RESEARCH  
JOURNAL OF COMMUNICATION  
PSYCHIC  
INTERNATIONAL JOURNAL OF NEUROPSYCHIATRY  
INTERNATIONAL JOURNAL OF PARAPSYCHOLOGY  
PERCEPTUAL AND MOTOR SKILLS  
JOURNAL OF NERVOUS AND MENTAL DISEASE  
PSYCHOLOGY  
RESEARCH IN PARAPSYCHOLOGY  
PSYCHOLOGICAL REPORTS  
PSYCHOLOGY TODAY  
JOURNAL OF EXPERIMENTAL AND SOCIAL PSYCHOLOGY  
BEHAVIORAL NEUROPSYCHIATRY  
JOURNAL OF ABNORMAL PSYCHOLOGY

BOOKS AND THE FOLLOWING PROVIDED THE REMAINING 7%:




JOURNAL OF PERSONAL AND SOCIAL PSYCHOLOGY  
JOURNAL OF THE AMERICAN SOCIETY OF PSYCHOSOMATIC DENTISTRY  
AND MEDICINE  
JOURNAL OF CREATIVE BEHAVIOR  
PSYCHOANALYTIC REVIEW  
AMERICAN JOURNAL OF CLINICAL HYPNOSIS  
JOURNAL OF HUMANISTIC PSYCHOLOGY  
JOURNAL OF CONTEMPORARY PSYCHOTHERAPY  
PASTORAL PSYCHOLOGY  
PSYCHOENERGETIC SYSTEMS  
NATURE  
PSYCHOLOGICAL REPORTS  
CLINICAL SOCIAL WORK JOURNAL  
JOURNAL OF TRANSPERSONAL PSYCHOLOGY

## APPENDIX C - DESCRIPTIVE AND SUMMARY STATISTICS<sup>13</sup>

MINIMUM, MAXIMUM AND RANGE - MINIMUM AND MAXIMUM DENOTE THE SMALLEST AND LARGEST VALUE OF A VARIABLE AMONG THE SAMPLE CASES. THE RANGE IS THE MINIMUM SUBTRACTED FROM THE MAXIMUM AND IS SUITABLE FOR ANY LEVEL OF MEASUREMENT.

MEDIAN - THE MEDIAN IS THE MIDDLE VALUE OR THE ARITHMETIC MEAN OF TWO MIDDLE VALUES OF A SET OF NUMBERS ARRANGED IN ORDER OF MAGNITUDE. IN THE SPSS PROGRAM, IT WAS ASSUMED THAT THE ORIGINAL MEASUREMENT ON THE VARIABLE WAS CONTINUOUS AND INTERVAL-LEVEL BUT GROUPED INTO CATEGORIES, BEING COMPUTED BY INTERPOLATION. IF THE VALUES WERE ORDINAL, WHICH THEY WERE FOR THE MOST PART IN THIS STUDY, THE MEDIAN HAD TO BE DETERMINED BY USING THE CUMULATIVE PERCENTAGES TO LOCATE THE CATEGORY CONTAINING THE MIDDLE CASE.

MEAN - OFTEN REFERRED TO AS THE "AVERAGE," THE MEAN IS THE MOST COMMON MEASURE OF CENTRAL TENDENCY FOR VARIABLES MEASURED AT THE INTERVAL LEVEL. IT IS DETERMINED BY THE SUMMATION OF THE INDIVIDUAL VALUES FOR EACH CASE DIVIDED BY THE NUMBER OF VALID CASES.

SKEWNESS - SKEWNESS IS THE DEGREE OF ASYMMETRY OF A DISTRIBUTION TO A NORMAL CURVE, MEASURING DEVIATION FROM SYMMETRY. ALSO KNOWN AS THE THIRD MOMENT, APPLICABLE TO INTERVAL-LEVEL VARIABLES, IT ASSUMES A POSITIVE VALUE IF THE DISTRIBUTION IS SKEWED TO THE RIGHT , A NEGATIVE VALUE IF SKEWED TO THE LEFT , AND ZERO IF SYMMETRICAL OR BELL-SHAPED . FOR SKEWED DISTRIBUTIONS THE MEAN TENDS TO LIE ON THE SAME SIDE OF THE MODE AS THE LONGER TAIL OR MORE EXTREME CASES.

KURTOSIS - KURTOSIS IS THE DEGREE OF PEAKEDNESS OF A CURVE, USUALLY TAKEN RELATIVE TO A NORMAL DISTRIBUTION. A DISTRIBUTION HAVING A POSITIVE VALUE WILL BE MORE PEAKED OR NARROWER THAN A NORMAL DISTRIBUTION AND IS CALLED LEPTOKURTIC. A FLAT-TOPPED CURVE, TAKING ON A NEGATIVE VALUE, IS CALLED PLATYKURTIC. THE MESOKURTIC, OR NORMAL DISTRIBUTION, WILL TAKE ON A VALUE OF ZERO. KURTOSIS, OR FOURTH MOMENT COEFFICIENT, IS APPLICABLE FOR INTERVAL-LEVEL DATA.

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<sup>13</sup> NORMAN H. NIE, AND OTHERS, SPSS: STATISTICAL PACKAGE FOR THE SOCIAL SCIENCES, 2D ED., MCGRAW-HILL, 1975.

CHI-SQUARE - CHI-SQUARE IS A MEASURE OF THE DISCREPANCY EXISTING BETWEEN OBSERVED AND EXPECTED FREQUENCIES OR, IN OTHER WORDS, STATISTICAL SIGNIFICANCE. EXPECTED FREQUENCIES ARE COMPUTED BY DETERMINING WHAT WOULD BE EXPECTED IF NO RELATIONSHIP EXISTED BETWEEN THE VARIABLES. THEY ARE THEN COMPARED TO THE ACTUAL CRITICAL VALUES FOUND IN A CHI-SQUARE TABLE BASED ON LEVEL OF SIGNIFICANCE DESIRED AND THE DEGREES OF FREEDOM. THE GREATER THE DISCREPANCIES BETWEEN THE EXPECTED AND ACTUAL FREQUENCIES, THE LARGER CHI-SQUARE BECOMES. SOME DISCREPANCIES CAN BE REASONABLY EXPECTED DUE TO CHANCE BUT LARGE DEVIATIONS, HIGH VALUES OF CHI-SQUARE, ARE RATHER UNLIKELY. TO DETERMINE IF AN ACTUAL RELATIONSHIP EXISTS OR IF THE VARIABLES ARE STATISTICALLY INDEPENDENT, ONE MUST LOOK AT THE PROBABILITY OF OBTAINING A GIVEN VALUE OF CHI-SQUARE PURELY BY CHANCE. THIS VALUE IS COMPUTED BY THE SPSS PROGRAM. THE VALUE IS DEPENDENT UPON THE NUMBER OF CELLS IN THE TABLE, OR DEGREES OF FREEDOM. IF A CHI-SQUARE OF 62.78 WERE FOUND AND THE PROBABILITY OF OBTAINING THIS VALUE WAS 0.0001 WE COULD CONCLUDE THAT A TABLE WITH AS LARGE A DEVIATION FROM EXPECTED FREQUENCIES WOULD OCCUR BY CHANCE IN ONLY ONE OUT OF 10,000 TRIALS. WE COULD ALSO CONCLUDE THAT A RELATIONSHIP DOES EXIST BETWEEN THE VARIABLES BUT THE STRENGTH OF RELATIONSHIP MUST BE ASSESSED BY OTHER TESTS.

CONTINGENCY COEFFICIENT - WHILE THIS IS A MEASURE OF ASSOCIATION BASED UPON CHI-SQUARE, ITS MAXIMUM VALUE BELOW ONE DEPENDS UPON THE SIZE OF THE TABLE. THEREFORE, ONLY TABLES HAVING THE SAME NUMBER OF ROWS AND COLUMNS SHOULD BE ANALYZED USING THIS MEASURE.

TAU C - TAU C AND GAMMA ARE MEASURES OF ASSOCIATION APPROPRIATE FOR TWO ORDINAL-LEVEL VARIABLES. THEY ARE BUILT UPON A COMMON BASIS, THAT OF ORDERING THE VARIABLES BY CONSIDERING EVERY POSSIBLE PAIR OF CASES IN THE TABLE AND BY CHECKING TO SEE IF THE RELATIVE ORDERING OF EACH PAIR IS THE SAME ON THE FIRST VARIABLE (CONCORDANT) AS THE RELATIVE ORDERING ON THE SECOND VARIABLE OR IF THE ORDERING IS REVERSED (DISCORDANT). TAU C IS MOST APPROPRIATE FOR RECTANGULAR TABLES AND IS DETERMINED BY DIVIDING THE DIFFERENCE BETWEEN CONCORDANT AND DISCORDANT PAIRS ADJUSTED FOR THE NUMBER OF ROWS OR COLUMNS. IT TAKES ON THE VALUE OF +1 WHEN ALL CASES FALL ON THE MAJOR DIAGONAL, -1 FOR ALL CASES FALLING ON THE MINOR DIAGONAL, OR ZERO (NO ASSOCIATION).

GAMMA - WHILE NOT TAKING INTO ACCOUNT THE TIES OR TABLE SIZE, GAMMA IS DETERMINED BY THE NUMBER OF CONCORDANT PAIRS MINUS THE DISCORDANT PAIRS DIVIDED BY THE SUM OF THE UNITED PAIRS. IT HAS A POSITIVE VALUE WHEN THE CONCORDANT PAIRS PREDOMINATE, A NEGATIVE VALUE WHEN THE DISCORDANT PAIRS PREDOMINATE OR ZERO WHEN THEY ARE EQUAL. IN OTHER WORDS, GAMMA CAN PROVIDE THE PROBABILITY OF CORRECTLY GUESSING THE ORDER AND DIRECTION OF ORDERING OF A PAIR OF CASES ON ONE VARIABLE WHEN THE ORDERING OF THE OTHER VARIABLE IS KNOWN. GAMMA RANGES FROM +1 TO -1 DEPENDING UPON THE STRENGTH OF RELATIONSHIP.



## APPENDIX D - FREQUENCIES

## PERIOD OF ACTIVE INVOLVEMENT

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
>38 YEARS	1	6	7.6	7.9	7.9
BETWEEN 25-30 YRS	3	4	5.1	5.3	13.2
BETWEEN 20-25 YRS	4	6	7.6	7.9	21.1
BETWEEN 15-20 YRS	5	11	13.9	14.5	35.5
BETWEEN 10-15 YRS	6	10	12.7	13.2	48.7
BETWEEN 5-10 YRS	7	25	31.6	32.9	81.6
BETWEEN 1-5 YRS	8	14	17.7	18.4	100.0
REFUSED ANSWER	9	3	3.8	MISSING	100.0
TOTAL		<u>79</u>	<u>100.0</u>	<u>100.0</u>	

PERIOD OF ACTIVE INVOLVEMENT

```

CODE
1 ***** ( 6)
  | >38 YEARS
  |
3 ***** ( 4)
  | BETWEEN 25-30 YRS
  |
4 ***** ( 6)
  | BETWEEN 20-25 YRS
  |
5 ***** ( 11)
  | BETWEEN 15-20 YRS
  |
6 ***** ( 10)
  | BETWEEN 10-15 YRS
  |
7 ***** ( 25)
  | BETWEEN 5-10 YRS
  |
8 ***** ( 14)
  | BETWEEN 1-5 YRS
  |
9 ***** ( 3)
  | REFUSED ANSWER
(MISSING)
0 .....
  |
  | 10 20 30 40 50
  |-----
  | FREQUENCY

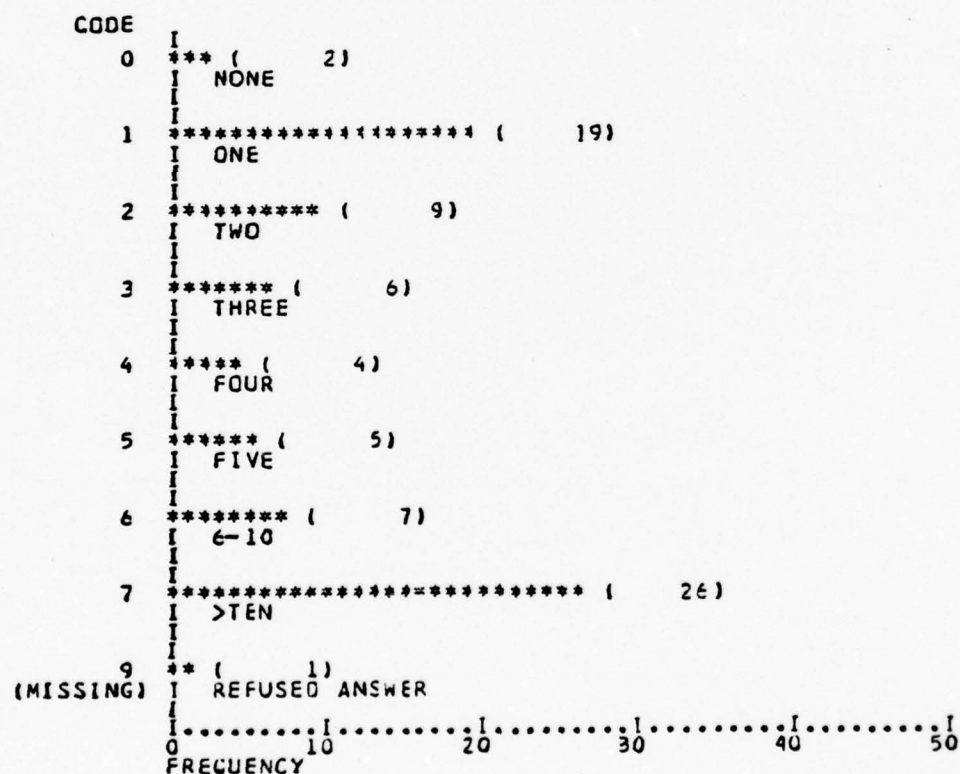
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MEAN	5.842	MEDIAN	6.540	KURTOSIS	0.469
SKWENESS	-1.091	RANGE	7.000	MINIMUM	1.000
MAXIMUM	8.000				
VALID CASES	76	MISSING CASES	3		

# ARTICLES NUMBER OF PARAPSYCH ARTICLES PUBLISHED

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
NONE	0	2	.2.5	2.6	2.6
ONE	1	19	24.1	24.4	26.9
TWO	2	9	11.4	11.5	38.5
THREE	3	6	7.6	7.7	46.2
FOUR	4	4	5.1	5.1	51.3
FIVE	5	5	6.3	6.4	57.7
6-10	6	7	8.9	9.0	66.7
>TEN	7	26	32.9	33.3	100.0
REFUSED ANSWER	9	1	1.3	MISSING	100.0
	TOTAL	79	100.0	100.0	

## NUMBER OF PARAPSYCH ARTICLES PUBLISHED

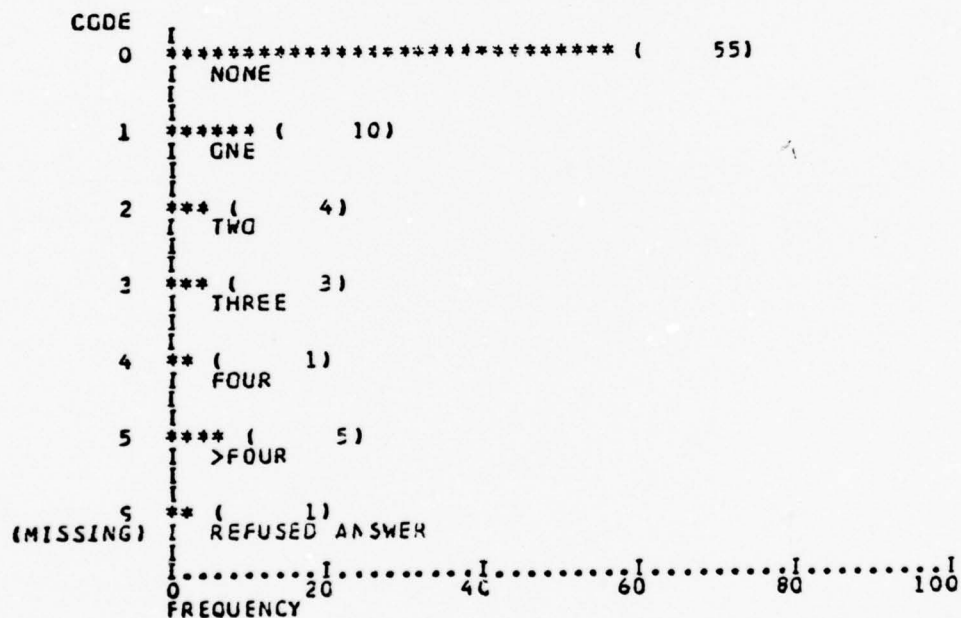


MEAN	4.103	MEDIAN	4.250	KURTOSIS	-1.707
SKWENESS	-0.088	RANGE	7.000	MINIMUM	0.0
MAXIMUM	7.000				
VALID CASES	78	MISSING CASES	1		

BOOKS      NUMBER OF BOOKS PUBLISHED ON PARAPSYCH

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
NONE	0	55	69.6	70.5	70.5
ONE	1	10	12.7	12.8	83.3
TWO	2	4	5.1	5.1	88.5
THREE	3	3	3.8	3.8	92.3
FOUR	4	1	1.3	1.3	93.6
>FOUR	5	5	6.3	6.4	100.0
REFUSED ANSWER	9	1	1.3	MISSING	100.0
	TOTAL	79	100.0	100.0	

NUMBER OF BOOKS PUBLISHED ON PARAPSYCH

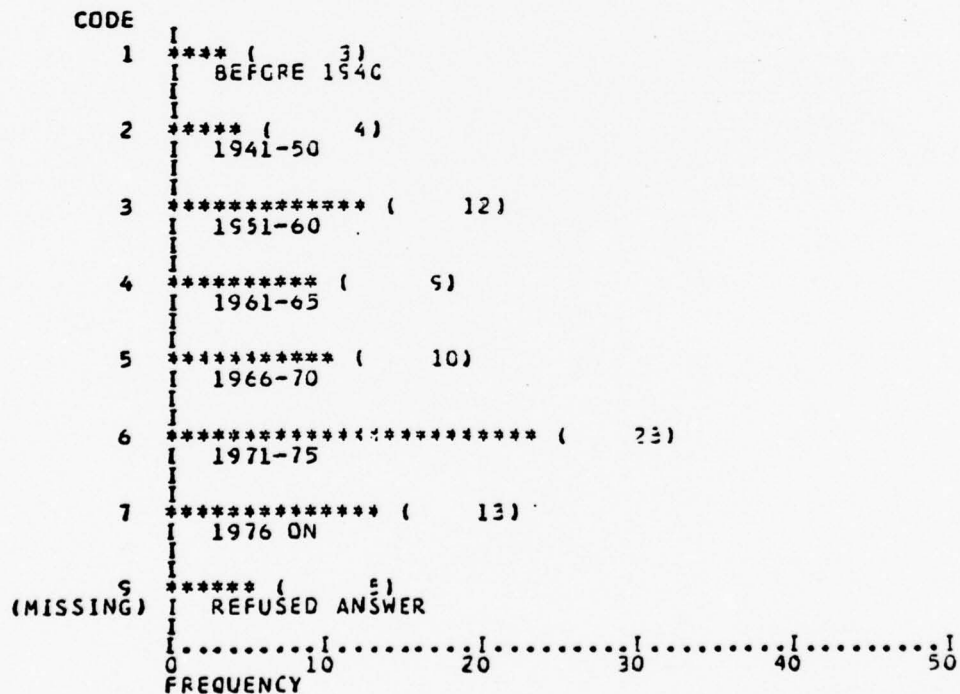


MEAN	0.718	MEDIAN	0.209	KURTOSIS	3.580
SKWENESS	2.134	RANGE	5.000	MINIMUM	0.0
MAXIMUM	5.000				
VALID CASES	78	MISSING CASES	1		

FIRSTART PERIOD FIRST ARTICLE OR BOOK PUBLISHED

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
BEFORE 1940	1	3	3.8	4.1	4.1
1941-50	2	4	5.1	5.4	9.5
1951-60	3	12	15.2	16.2	25.7
1961-65	4	9	11.4	12.2	37.8
1966-70	5	10	12.7	13.5	51.4
1971-75	6	23	29.1	31.1	82.4
1976 ON	7	13	16.5	17.6	100.0
REFUSED ANSWER	9	5	6.3	MISSING	100.0
	TOTAL	79	100.0	100.0	

PERIOD FIRST ARTICLE OR BOOK PUBLISHED



MEAN	4.852	MEDIAN	5.400	KURTOSIS	-0.698
SKWNESS	-0.579	RANGE	6.000	MINIMUM	1.000
MAXIMUM	7.000				
VALID CASES	74	MISSING CASES	5		



CONTACT? HAVE DISCUSSED PSI WITH WARSAW SCIENTIST

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
NO	0	44	55.7	55.7	55.7
YES, WITH ONE OR MORE	1	35	44.3	44.3	100.0
	TOTAL	79	100.0	100.0	

HAVE DISCUSSED PSI WITH WARSAW SCIENTIST

```

CODE
0 ***** ( 44)
  NO
1 ***** ( 35)
  YES, WITH ONE OR MORE
0 .....1.....2.....3.....4.....5
  FREQUENCY

```

MEAN	0.443	MEDIAN	0.398	KURTOSIS	-1.997
SKEWNESS	0.234	RANGE	1.000	MINIMUM	0.0
MAXIMUM	1.000				
VALID CASES	79	MISSING CASES	0		

WHEN WHEN FIRST CONTACT WITH WP SCIENTIST?

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
1941-50	2	1	1.3	2.9	2.9
1951-60	3	1	1.3	2.9	5.9
1961-65	4	6	7.6	17.6	23.5
1966-70	5	4	5.1	11.8	35.3
1971-75	6	14	17.7	41.2	76.5
1976 ON	7	8	10.1	23.5	100.0
REFUSED ANSWER	9	45	57.0	MISSING	100.0
	TOTAL	79	100.0	100.0	

WHEN FIRST CONTACT WITH WP SCIENTIST?

```

CODE
2  I
  I ** ( 1 )
  I 1941-50
  I
3  I
  I ** ( 1 )
  I 1951-60
  I
4  I
  I ***** ( 6 )
  I 1961-65
  I
5  I
  I ***** ( 4 )
  I 1966-70
  I
6  I
  I ***** ( 14 )
  I 1971-75
  I
7  I
  I ***** ( 8 )
  I 1976 ON
  I
9  I ***** ( 45 )
(MISSING) I REFUSED ANSWER
          I
          I ..... I ..... I ..... I ..... I
          0 ..... 10 ..... 20 ..... 30 ..... 40 ..... 50
          FREQUENCY

```

MEAN	5.559	MEDIAN	5.857	KURTOSIS	0.376
SKEWNESS	-0.915	RANGE	5.000	MINIMUM	2.000
MAXIMUM	7.000				
VALID CASES	34	MISSING CASES	45		

BELIEVE I BELIEVE THAT PSI EXISTS

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
STRONGLY AGREE	1	43	54.4	54.4	54.4
MILDLY AGREE	2	9	11.4	11.4	65.8
SOMEWHAT AGREE	3	13	16.5	16.5	82.3
NO OPINION	4	3	3.8	3.8	86.1
SOMEWHAT DISAGREE	5	2	2.5	2.5	88.6
MILDLY DISAGREE	6	4	5.1	5.1	93.7
STRONGLY DISAGREE	7	5	6.3	6.3	100.0
TOTAL		79	100.0	100.0	

I BELIEVE THAT PSI EXISTS

```

CODE
1 ***** ( 43)
  I STRONGLY AGREE
  I
  I
2 ***** ( 9)
  I MILDLY AGREE
  I
  I
3 ***** ( 13)
  I SOMEWHAT AGREE
  I
  I
4 ***** ( 3)
  I NO OPINION
  I
  I
5 ***** ( 2)
  I SOMEWHAT DISAGREE
  I
  I
6 ***** ( 4)
  I MILDLY DISAGREE
  I
  I
7 ***** ( 5)
  I STRONGLY DISAGREE
  I
  I
  I.....I.....I.....I.....I
  C      10.....20.....30.....40.....50
  FREQUENCY
  
```

MEAN	2.291	MEDIAN	1.415	KURTOSIS	0.943
SKEWNESS	1.428	RANGE	6.000	MINIMUM	1.000
MAXIMUM	7.000				
VALID CASES	79	MISSING CASES	0		

SOVINT THE USSR NOT INTERESTED IN PARAPSYCH

CATEGORY LABEL	CCCE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
SOMEWHAT AGREE	3	1	1.3	1.3	1.3
NO OPINION	4	9	11.4	11.5	12.8
SOMEWHAT DISAGREE	5	7	8.9	9.0	21.8
MILDLY DISAGREE	6	25	31.6	32.1	53.8
STRONGLY DISAGREE	7	36	45.6	46.2	100.0
REFUSED ANSWER	9	1	1.3	MISSING	100.0
TOTAL		79	100.0	100.0	

THE USSR NOT INTERESTED IN PARAPSYCH

```

CODE
3 I
  I ** ( 1)
  I SOMEWHAT AGREE
  I
4 I
  I ***** ( 9)
  I NO OPINION
  I
5 I
  I ***** ( 7)
  I SOMEWHAT DISAGREE
  I
6 I
  I ***** ( 25)
  I MILDLY DISAGREE
  I
7 I
  I ***** ( 36)
  I STRONGLY DISAGREE
  I
9 I
  I ** ( 1)
(MISSING) I REFUSED ANSWER
          I
          I ..... I ..... I ..... I ..... I
          0         10      20      30      40      50
          FREQUENCY

```

MEAN	6.103	MEDIAN	6.380	KURTOSIS	0.190
SKWENESS	-1.072	RANGE	4.000	MINIMUM	3.000
MAXIMUM	7.000				
VALID CASES	78	MISSING CASES	1		



EXCHANGE THE US-USSR SHOULD EXCHANGE MORE PSI INFO

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
STRONGLY AGREE	1	37	46.8	48.1	48.1
MILDLY AGREE	2	9	11.4	11.7	59.7
SOMEWHAT AGREE	3	15	19.0	19.5	79.2
NO OPINION	4	7	8.9	9.1	88.3
SOMEWHAT DISAGREE	5	1	1.3	1.3	89.6
STRONGLY DISAGREE	7	8	10.1	10.4	100.0
REFUSED ANSWER	9	2	2.5	MISSING	100.0
TOTAL		79	100.0	100.0	

THE US-USSR SHOULD EXCHANGE MORE PSI INF

```

CODE
1 ***** ( 37)
  I STRONGLY AGREE
  I
2 ***** ( 9)
  I MILDLY AGREE
  I
3 ***** ( 15)
  I SOMEWHAT AGREE
  I
4 ***** ( 7)
  I NO OPINION
  I
5 ** ( 1)
  I SOMEWHAT DISAGREE
  I
7 ***** ( 8)
  I STRONGLY DISAGREE
  I
9 *** ( 2)
(MISSING) I REFUSED ANSWER
          I
          I.....I.....I.....I.....I.....I
          0.....10.....20.....30.....40.....50
          FREQUENCY

```

MEAN	2.455	MEDIAN	1.667	KURTOSIS	0.919
SKEWNESS	1.351	RANGE	6.000	MINIMUM	1.000
MAXIMUM	7.000				
VALID CASES	77	MISSING CASES	2		

DISCUSS WP SCIENTISTS OPENLY DISCUSS EXPERIMENTS

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
STRONGLY AGREE	1	4	5.1	5.3	5.3
MILDLY AGREE	2	3	3.8	3.9	9.2
NO OPINION	4	25	31.6	32.9	42.1
SOMEWHAT DISAGREE	5	4	5.1	5.3	47.4
MILDLY DISAGREE	6	14	17.7	18.4	65.8
STRONGLY DISAGREE	7	26	32.9	34.2	100.0
REFUSED ANSWER	9	3	3.8	MISSING	100.0
	TOTAL	79	100.0	100.0	

WP SCIENTISTS OPENLY DISCUSS EXPERIMENTS

```

CODE
1 ***** ( 4)
  I STRONGLY AGREE
  I
2 **** ( 3)
  I MILDLY AGREE
  I
4 ***** ( 25)
  I NO OPINION
  I
5 ***** ( 4)
  I SOMEWHAT DISAGREE
  I
6 ***** ( 14)
  I MILDLY DISAGREE
  I
7 ***** ( 26)
  I STRONGLY DISAGREE
  I
9 **** ( 3)
(MISSING) I REFUSED ANSWER
  I
  I ..... I ..... I ..... I ..... I
  0 ..... 10 ..... 20 ..... 30 ..... 40 ..... 50
      FREQUENCY

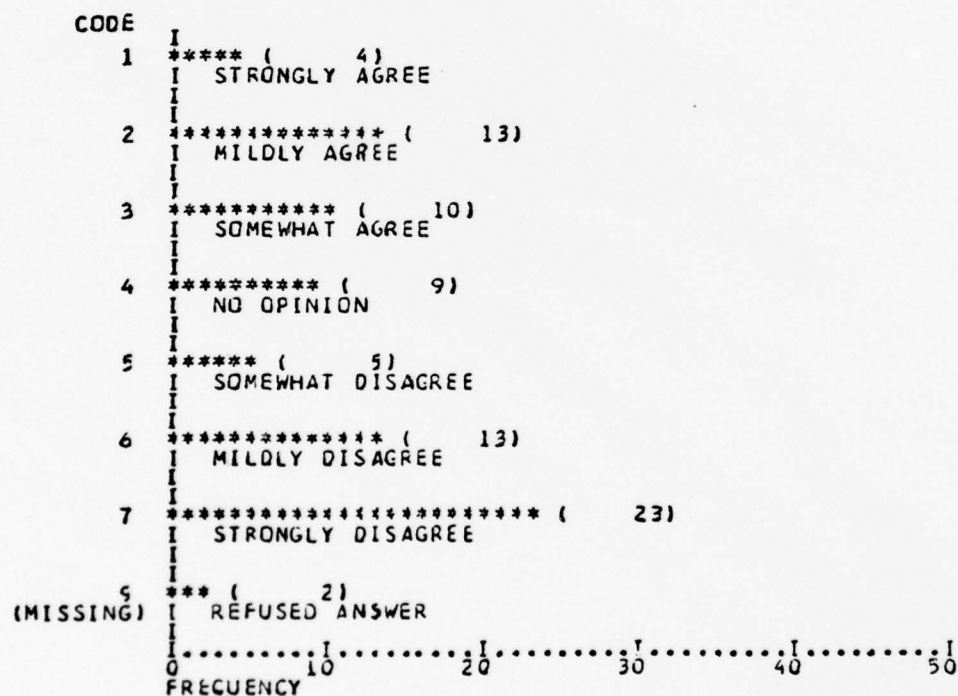
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MEAN	5.211	MEDIAN	5.643	KURTOSIS	-0.219
SKEWNESS	-0.727	RANGE	6.000	MINIMUM	1.000
MAXIMUM	7.000				
VALID CASES	76	MISSING CASES	3		

USPROG THE US IS PROGRESSING LOGICALLY IN PSI

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
STRONGLY AGREE	1	4	5.1	5.2	5.2
MILDLY AGREE	2	13	16.5	16.9	22.1
SOMEWHAT AGREE	3	10	12.7	13.0	35.1
NO OPINION	4	9	11.4	11.7	46.8
SOMEWHAT DISAGREE	5	5	6.3	6.5	53.2
MILDLY DISAGREE	6	13	16.5	16.9	70.1
STRONGLY DISAGREE	7	23	29.1	29.9	100.0
REFUSED ANSWER	9	2	2.5	MISSING	100.0
	TOTAL	79	100.0	100.0	

THE US IS PROGRESSING LOGICALLY IN PSI



MEAN	4.675	MEDIAN	5.000	KURTOSIS	-1.438
SKWEWNESS	-0.270	RANGE	6.000	MINIMUM	1.000
MAXIMUM	7.000				
VALID CASES	77	MISSING CASES	2		

SOVPROG THE USSR IS PROG LOGICALLY IN PSI

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
STRONGLY AGREE	1	3	3.8	3.9	3.9
MILDLY AGREE	2	8	10.1	10.5	14.5
SOMEWHAT AGREE	3	9	11.4	11.8	26.3
NO OPINION	4	41	51.9	53.9	80.3
SOMEWHAT DISAGREE	5	3	3.8	3.9	84.2
MILDLY DISAGREE	6	8	10.1	10.5	94.7
STRONGLY DISAGREE	7	4	5.1	5.3	100.0
REFUSED ANSWER	9	3	3.8	MISSING	100.0
TOTAL		79	100.0	100.0	

THE USSR IS PROG LOGICALLY IN PSI

```

CODE
1 1*** ( 3)
   1 STRONGLY AGREE
2 1***** ( 8)
   1 MILDLY AGREE
3 1***** ( 9)
   1 SOMEWHAT AGREE
4 1***** ( 41)
   1 NO OPINION
5 1*** ( 3)
   1 SOMEWHAT DISAGREE
6 1***** ( 8)
   1 MILDLY DISAGREE
7 1**** ( 4)
   1 STRONGLY DISAGREE
9 1*** ( 3)
   1 REFUSED ANSWER
(MISSING)
0 ..... 10 ..... 20 ..... 30 ..... 40 ..... 50
FQUENCY

MEAN      3.961      MEDIAN      3.939      KURTOSIS      0.413
SKEWNESS  0.204      RANGE      6.000      MINIMUM
MAXIMUM   7.000

VALID CASES 76      MISSING CASES 3

```



SQVADV THE USSR WOULDNT USE PSI ON US

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
STRONGLY AGREE	1	4	5.1	5.2	5.2
SOMEWHAT AGREE	3	1	1.3	1.3	6.5
NO OPINION	4	19	24.1	24.7	31.2
SOMEWHAT DISAGREE	5	4	5.1	5.2	36.4
MILDLY DISAGREE	6	12	15.2	15.6	51.9
STRONGLY DISAGREE	7	37	46.8	48.1	100.0
REFUSED ANSWER	9	2	2.5	MISSING	100.0
TOTAL		79	100.0	100.0	

THE USSR WOULDNT USE PSI ON US

```

CODE
1 ***** ( 4)
  I STRONGLY AGREE
  I
3 ** ( 1)
  I SOMEWHAT AGREE
  I
4 ***** ( 19)
  I NO OPINION
  I
5 ***** ( 4)
  I SOMEWHAT DISAGREE
  I
6 ***** ( 12)
  I MILDLY DISAGREE
  I
7 ***** ( 37)
  I STRONGLY DISAGREE
  I
9 *** ( 2)
(MISSING) I REFUSED ANSWER
          I
          I.....I.....I.....I.....I
          0.....10.....20.....30.....40.....50
          FREQUENCY

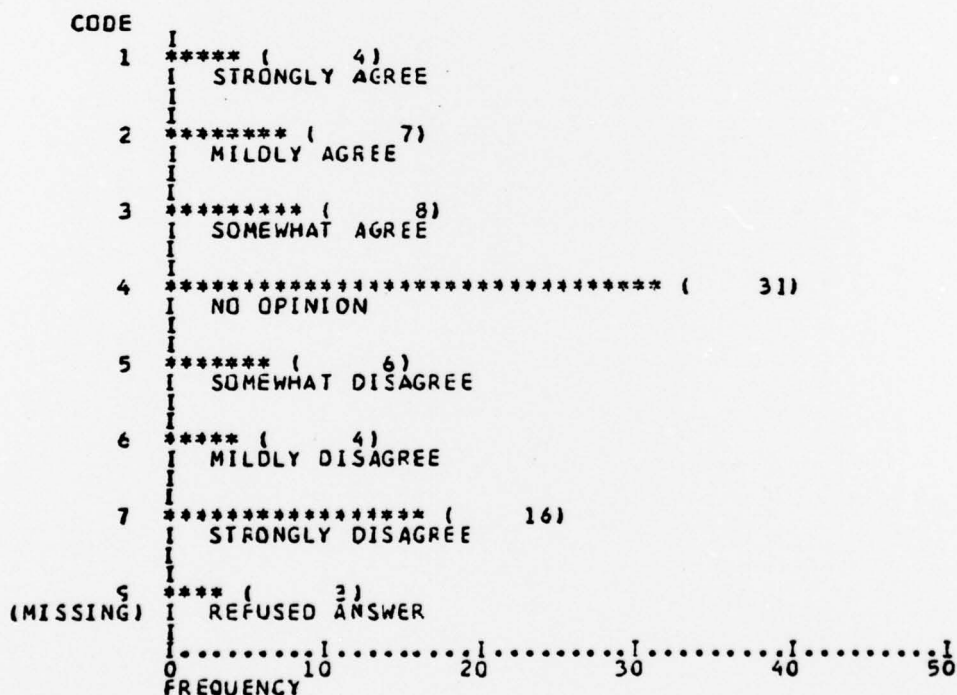
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MEAN	5.636	MEDIAN	6.375	KURTOSIS	0.695
SKWENESS	-1.149	RANGE	6.000	MINIMUM	1.000
MAXIMUM	7.000				
VALID CASES	77	MISSING CASES	2		

WPCAPE      WARSAW WILL HAVE PSI CAPABILITY IN 10 YR

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
STRONGLY AGREE	1	4	5.1	5.3	5.3
MILDLY AGREE	2	7	8.9	9.2	14.5
SOMEWHAT AGREE	3	8	10.1	10.5	25.0
NO OPINION	4	31	39.2	40.8	65.8
SOMEWHAT DISAGREE	5	6	7.6	7.9	73.7
MILDLY DISAGREE	6	4	5.1	5.3	78.9
STRONGLY DISAGREE	7	16	20.3	21.1	100.0
REFUSED ANSWER	9	3	3.8	MISSING	100.0
TOTAL		<u>79</u>	<u>100.0</u>	<u>100.0</u>	

WARSAW WILL HAVE PSI CAPABILITY IN 10 YR

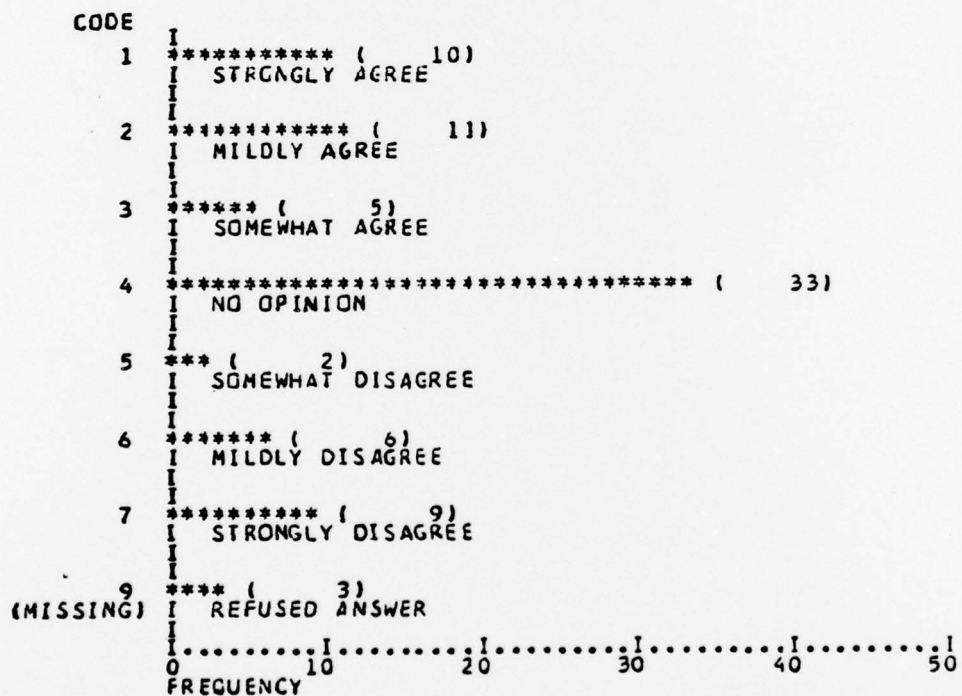


MEAN	4.368	MEDIAN	4.113	KURTOSIS	-0.678
SKWENSS	0.110	RANGE	6.000	MINIMUM	1.000
MAXIMUM	7.000				
VALID CASES	76	MISSING CASES	3		

USLEAD US HAS LEAD IN STUDY OF PARAPSYCH

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
STRONGLY AGREE	1	10	12.7	13.2	13.2
MILDLY AGREE	2	11	13.9	14.5	27.6
SOMEWHAT AGREE	3	5	6.3	6.6	34.2
NO OPINION	4	33	41.8	43.4	77.6
SOMEWHAT DISAGREE	5	2	2.5	2.6	80.3
MILDLY DISAGREE	6	6	7.6	7.9	88.2
STRONGLY DISAGREE	7	9	11.4	11.8	100.0
REFUSED ANSWER	9	3	3.8	MISSING	100.0
TOTAL		79	100.0	100.0	

US HAS LEAD IN STUDY OF PARAPSYCH



MEAN	3.789	MEDIAN	3.864	KURTOSIS	-0.606
SKEWNESS	0.198	RANGE	6.000	MINIMUM	1.000
MAXIMUM	7.000				
VALID CASES	76	MISSING CASES	3		

USADV US SHOULDN'T USE PSI ON WARSAW IF COULD

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ. FREQ. (PERCENT)
STRONGLY AGREE	1	19	24.1	24.7	24.7
MILDLY AGREE	2	6	7.6	7.8	32.5
SOMEWHAT AGREE	3	7	8.9	9.1	41.6
NO OPINION	4	14	17.7	18.2	59.7
SOMEWHAT DISAGREE	5	8	10.1	10.4	70.1
MILDLY DISAGREE	6	11	13.9	14.3	84.4
STRONGLY DISAGREE	7	12	15.2	15.6	100.0
REFUSED ANSWER	9	2	2.5	MISSING	100.0
TOTAL		79	100.0	100.0	

US SHOULDN'T USE PSI ON WARSAW IF COULD

CODE		
1	***** ( 19)	
	STRONGLY AGREE	
2	***** ( 6)	
	MILDLY AGREE	
3	***** ( 7)	
	SOMEWHAT AGREE	
4	***** ( 14)	
	NO OPINION	
5	***** ( 8)	
	SOMEWHAT DISAGREE	
6	***** ( 11)	
	MILDLY DISAGREE	
7	***** ( 12)	
	STRONGLY DISAGREE	
8	***** ( 2)	
(MISSING)	REFUSED ANSWER	
0	.....	
	FREQUENCY	

MEAN	3.870	MEDIAN	3.964	KURTOSIS	-1.379
SKEWNESS	-0.010	RANGE	6.000	MINIMUM	1.000
MAXIMUM	7.000				
VALID CASES	77	MISSING CASES	2		



USINVOL US GOVT SHOULD BECOME INVOLVED IN PSI

CATEGORY LABEL	CODE	ABSOLUTE FREQUENCY	RELATIVE FREQUENCY (PERCENT)	ADJUSTED FREQUENCY (PERCENT)	CUMULATIVE ADJ FREQ (PERCENT)
STRONGLY AGREE	1	44	55.7	56.4	56.4
MILDLY AGREE	2	9	11.4	11.5	67.9
SOMEWHAT AGREE	3	12	15.2	15.4	83.3
NO OPINION	4	1	1.3	1.3	84.6
SOMEWHAT DISAGREE	5	5	6.3	6.4	91.0
MILDLY DISAGREE	6	1	1.3	1.3	92.3
STRONGLY DISAGREE	7	6	7.6	7.7	100.0
REFUSED ANSWER	9	1	1.3	MISSING	100.0
	TOTAL	79	100.0	100.0	

US GOVT SHOULD BECOME INVOLVED IN PSI

```

CODE
1 ***** ( 44 )
  STRONGLY AGREE
2 ***** ( 9 )
  MILDLY AGREE
3 ***** ( 12 )
  SOMEWHAT AGREE
4 ** ( 1 )
  NO OPINION
5 ***** ( 5 )
  SOMEWHAT DISAGREE
6 ** ( 1 )
  MILDLY DISAGREE
7 ***** ( 6 )
  STRONGLY DISAGREE
9 ** ( 1 )
(MISSING) REFUSED ANSWER
0 .....I.....I.....I.....I.....I
  FREQUENCY 10 20 30 40 50

```

MEAN	2.244	MEDIAN	1.386	KURTOSIS	1.194
SKEWNESS	1.511	RANGE	6.000	MINIMUM	1.000
MAXIMUM	7.000				
VALID CASES	78	MISSING CASES	1		

# APPENDIX E - SUBJECT FREQUENCY TABLE

SUBJECT	RESPONSE CODE							TOTAL
	1	2	3	4	5	6	7	
BIOPLASMA	1		4			1	1	7
CLAIRVOYANCE			2	8		7		17
EEG	1		1	5		1		8
KIRLIAN PHOTOGRAPHY	1		2	1		4		8
THOUGHT CONTROL	2		1				1	4
PHYSIOLOGY	1		1	3		2		7
GENERAL ESP (GESP)			1	9		5	2	17
PRECOGNITION	1		1	6		2	1	11
PSYCHIC HEALING/SURGERY	1		1	1		2		5
HYPNOSIS	1		3	2		1		7
REMOTE VIEWING (OBE)	2			4				6
PLETHYSMOGRAPH	1		1	2				4
SENSORY SHIELDING	1		1	1			1	4
TELEPATHY			1	6	1	4	1	13
DERMO-OPTICS/DERMAL VISION			2	1		1	1	5
PSYCHIC PHOTOGRAPHY	1			2		2		5
PSYCHOKINESIS (PK)			3	5		5	1	14
BIOLOGICAL COMMUNICATIONS	1			1		2	1	5
GENERAL PSYCHOLOGY	1			1		2		4
PSYCHOTRONIC GENERATORS			3				2	5
SUBLIMINAL SUGGESTION	2		2					4
RESEARCH CENTERS	2		2			1		5
POLITICAL CONSIDERATIONS	3		1					4
THEORETICAL CONCEPTS	1		3	4		4	1	13
EXPERIMENTAL RESULTS			1	9		6	2	18
QUANTITATIVE INFORMATION			1	6		3	1	11
QUALITATIVE INFORMATION			1	3		3	1	8
CURRENT RESEARCH TECHNIQUES	4		1	2		2	1	10
RELIGIOUS PHILOSOPHY	1			1		1	1	4
HISTORICAL INFORMATION			3	1	1	1	1	7
BUDGETARY INFORMATION	1			2	1			4
RESEARCH PERSONALITIES	1			2	1			4
BIBLIOGRAPHIES	2		1	3		1		7
TOTALS	33	0	41	94	4	63	20	255

I. E.    REQ   GVN   RCVD  
         / /   / /   / /   BIOPLASMA

WHAT WAS THE NATURE OR SUBJECT OF INFO REQUESTED BY THEM?

WHAT WAS THE NATURE OR SUBJECT OF INFO GIVEN TO THEM?

WHAT WAS THE NATURE OR SUBJECT OF INFO RCVD FROM THEM?

/X/   / /   / /   =   1   REQUESTED BUT NOT GIVEN TO THEM

/ /   /X/   / /   =   2   GIVEN WITHOUT A REQUEST FROM THEM

/ /   / /   /X/   =   3   RECEIVED FROM THEM

/X/   /X/   / /   =   4   REQUESTED BY AND GIVEN TO THEM

/ /   /X/   /X/   =   5   EXCHANGED, NOT REQUESTED BY THEM

/X/   /X/   /X/   =   6   REQUESTED BY THEM, GIVEN TO & RCVD FROM

/X/   / /   /X/   =   7   REQUESTED BY THEM, NOT GIVEN BUT RCVD

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